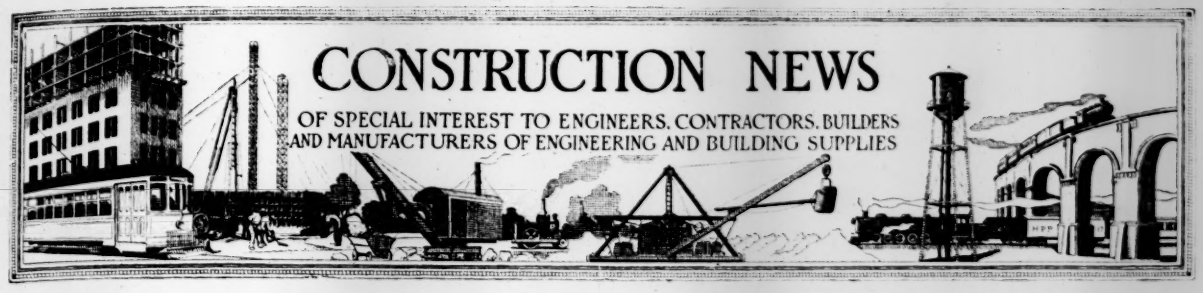
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
Aug. 18	Garber, Okla.	Aug. 7
Aug. 18	Ashland, Ky.	Aug. 14
Aug. 19	Philadelphia, Pa.	Aug. 14
Aug. 20	Armour, S. D. Adv. July 24.	July 24
Aug. 20	Hawthorne, N. J. Adv. Aug. 14.	Aug. 14
Aug. 25	Grey Bull, Wyo.	Aug. 14
Aug. 25	Royal Oak, Mich.	Aug. 14
Aug. 30	Berwick, N. S.	Aug. 14
Aug. 30	Clarksburg, W. Va. Adv. Aug. 7.	Aug. 7

SEWERS

Aug. 18	Hackensack, N. J. Adv. July 24.	July 24
Aug. 18	Huntington, Pa.	July 31
Aug. 18	St. Paul, Minn.	Aug. 14
Aug. 18	Harrisburg, Pa.	Aug. 14
Aug. 18	Detroit, Mich.	Aug. 14
Aug. 18	Crisfield, Md.	Aug. 7
Aug. 18	Paulsboro, N. J. Adv. Aug. 7.	Aug. 7
Aug. 18	Towson, Md.	Aug. 7
Aug. 19	Toledo, O.	Aug. 14
Aug. 19	Kansas City, Mo. Adv. July 3 to 17.	July 3
Aug. 20	Cartersville, Ga.	Aug. 7
Aug. 20	Philadelphia, Pa.	Aug. 14
Aug. 21	Mandan, N. D.	Aug. 7
Aug. 21	Senatobia, Miss. Adv. Aug. 14.	Aug. 14
Aug. 21	New Baltimore, Mich.	Aug. 14
Aug. 25	Walnut Grove, Minn.	Aug. 7
Aug. 25	Lima, O. Adv. Aug. 7.	Aug. 7
Aug. 25	Royal Oak, Mich.	Aug. 14
Aug. 25	Fairhaven, Mass. Adv. Aug. 14.	Aug. 14

BRIDGES

Aug. 18	Harrisburg, Pa.	Aug. 7
Aug. 18	Pritchard, B. C.	Aug. 7
Aug. 18	Pine City, Minn.	Aug. 14
Aug. 18	Harrisburg, Pa.	Aug. 14
Aug. 19	St. George Island, Md.	Aug. 14
Aug. 19	Pickering, Ont.	Aug. 14
Aug. 19	Statesboro, Ga.	July 3
Aug. 19	Orangeville, Ont.	Aug. 14
Aug. 19	Port Hope, Ont.	Aug. 14
Aug. 20	Swainsboro, Ga.	July 3
Aug. 20	New Jersey Adv. Aug. 7.	Aug. 7
Aug. 20	Barrington, R. I.	Aug. 14
Aug. 20	Albany, Ore.	Aug. 14
Aug. 20	Michigan	Aug. 14
Aug. 25	Willougby, O.	Aug. 7
Aug. 25	Great Falls, Mont.	Aug. 7
Aug. 25	Underwood, Wash.	Aug. 14
Aug. 26	Lockhart, S. C. Adv. Aug. 14.	Aug. 14
Sept. 1	Duluth, Minn.	Aug. 14
Sept. 2	Minneapolis, Minn.	Aug. 14
Sept. 3	Toledo, O.	Aug. 14
Sept. 9	Duluth, Minn.	Aug. 14
Sept. 23	Harrisburg, Pa. Adv. Aug. 14.	Aug. 14

STREETS AND ROADS

Aug. 16	Michigan	Aug. 14
Aug. 16	Granite City, Ill. Adv. Aug. 14.	Aug. 14
Aug. 18	Walnut Ridge, Ark. Adv. July 17.	July 17
Aug. 18	Trenton, Ont.	Aug. 7
Aug. 18	Beamsville, Ont.	Aug. 7
Aug. 18	London, Ont.	Aug. 7
Aug. 18	Brantford, Ont.	Aug. 7
Aug. 18	Kingston, Ont.	Aug. 7
Aug. 18	Brockville, Ont.	Aug. 7
Aug. 18	California	Aug. 14
Aug. 18	Philadelphia, Pa.	Aug. 14
Aug. 18	Chester, Pa.	Aug. 14
Aug. 18	Toronto, Ont.	Aug. 14
Aug. 19	Michigan	July 31
Aug. 19	Reedsburg, Wis.	Aug. 14
Aug. 19	Manitowoc, Wis.	Aug. 14
Aug. 19	Anoka, Minn.	Aug. 14
Aug. 19	Columbus, O.	Aug. 14
Aug. 19	Michigan	Aug. 7
Aug. 19	Farmington, Minn.	Aug. 7
Aug. 19	Georgetown, Del.	July 31
Aug. 19	Faribault, Minn.	July 31
Aug. 19	Harrisburg, Pa.	July 31
Aug. 19	Michigan	Aug. 14
Aug. 20	Alabama	Aug. 14
Aug. 20	Baltimore, Md.	Aug. 14
Aug. 20	Brooklyn, N. Y.	Aug. 14
Aug. 21	De Queen, Ark.	July 24
Aug. 21	Oil City, Pa.	Aug. 7
Aug. 21	Michigan	Aug. 14
Aug. 21	Newport News, Va.	Aug. 14
Aug. 21	Michigan	Aug. 14
Aug. 21	St. George, S. I., N. Y.	Aug. 14
Aug. 22	St. George, S. I., N. Y.	Aug. 14
Aug. 22	Boise, Idaho	Aug. 14
Aug. 23	Brainerd, Minn.	July 31
Aug. 23	Montana	Aug. 14
Aug. 23	Monesson, Pa.	Aug. 14
Aug. 23	Michigan	Aug. 14
Aug. 23	Morgantown, W. Va.	Aug. 14
Aug. 24	Washington, D. C.	July 24
Aug. 24	Denver, Colo.	July 10
Aug. 25	Ebensburg, Pa.	Aug. 7
Aug. 25	Indiana	Aug. 14
Aug. 25	Washington	Aug. 14
Aug. 25	California	Aug. 14
Aug. 26	Indiana	Aug. 14
Aug. 26	Maryland	Aug. 14
Aug. 26	Bordentown, N. J. Adv. Aug. 14.	Aug. 14
Aug. 26	Trenton, N. J. Adv. Aug. 14.	Aug. 14
Aug. 26	New York, N. Y.	Aug. 7
Aug. 26	Guntersville, Ala.	July 31
Aug. 27	Peru, Neb.	Aug. 7
Aug. 27	Welch, W. Va.	Aug. 14
Aug. 27	Middletown, Del.	Aug. 14
Aug. 27	New Jersey Adv. Aug. 14.	Aug. 14
Aug. 28	Helena, Ark.	Aug. 14
Aug. 28	Martinsburg, W. Va.	Aug. 14
Aug. 28	Camden, N. J. Adv. Aug. 14.	Aug. 14
Aug. 29	Greenfield, Ind.	Aug. 14
Aug. 30	St. Martine, Que.	Aug. 14
Sept. 1	Arcadia, Fla.	Aug. 7
Sept. 1	Salt Lake City, Utah	July 24
Sept. 2	Independence, Mo.	Aug. 7
Sept. 2	Minneapolis, Minn.	Aug. 14
Sept. 2	Washington, Ga.	Aug. 14
Sept. 2	Sylacauga, Ala.	Aug. 14
Sept. 3	Toledo, O.	Aug. 14
Sept. 3	Moultrie, Ga.	Aug. 14
Sept. 8	Indiana	Aug. 14
Oct. 10	Tacoma, Wash. Adv. Aug. 14.	Aug. 14

EXCAVATION AND DREDGING

Aug. 19	Ottawa, Ont.	Aug. 14
Aug. 20	Brooklyn, N. Y.	Aug. 14
Aug. 20	Carrollton, Miss.	Aug. 7
Aug. 28	Granite Falls, Minn.	Aug. 7
Sept. 2	Sanford, Ala.	Aug. 14

INDUSTRIAL WORKS

Aug. 16	Worcester, Mass.	Aug. 14
Aug. 20	Minneapolis, Minn.	Aug. 14
Aug. 20	Philadelphia, Pa.	Aug. 14
Aug. 22	Wilkes-Barre, Pa.	Aug. 14

BUILDINGS

Aug. 16	Hazleton, Pa.	Aug. 14
Aug. 18	Erie, Pa.	July 24
Aug. 18	Ottawa, Kan.	Aug. 7
Aug. 18	Maple Shade, N. J.	Aug. 14
Aug. 18	Minneapolis, Minn.	Aug. 14
Aug. 19	Spring City, Pa.	Aug. 7
Aug. 19	Fairmont, Neb.	Aug. 7
Aug. 19	West Bethlehem, Pa.	Aug. 14
Aug. 20	Hamilton, Ont.	Aug. 7
Aug. 20	Austin, Minn.	Aug. 7
Aug. 20	Watsontown, Pa.	Aug. 14
Aug. 21	Springfield, Ill.	Aug. 7
Aug. 21	Valpariso, Neb.	Aug. 7
Aug. 21	Richmond, Utah	July 31
Aug. 21	Storm Lake, Pa.	Aug. 14
Aug. 21	Detroit, Mich.	Aug. 14
Aug. 22	Montevideo, Minn.	Aug. 14
Aug. 23	Thief River Falls, Minn.	Aug. 14
Aug. 23	Hobart, N. Y.	Aug. 14
Aug. 24	St. Paul, Minn.	July 31
Aug. 25	Elizabeth, N. J.	Aug. 7
Aug. 25	Bayard, Neb.	Aug. 7
Aug. 25	Chicago, Ill.	Aug. 7
Aug. 26	Weyburn, Sask.	Aug. 7
Aug. 26	Manhattan, Kan.	Aug. 14
Aug. 27	East White Plains, N. Y.	Aug. 14
Aug. 27	Stoutsville, O.	Aug. 7
Aug. 30	New Aberdeen, N. S.	Aug. 7
Aug. 30	Worcester, Mass.	Aug. 14
Aug. 30	Halifax, N. S.	Aug. 14
Sept. 1	Omaha, Neb.	July 17
Sept. 1	Ft. Worth, Tex.	Aug. 14
Sept. 1	Cameron, Tex.	Aug. 14
Sept. 1	Miamisburg, O.	Aug. 14
Sept. 1	Outremont, Que.	Aug. 14
Sept. 3	Trenton, N. J.	Aug. 14
Sept. 3	Victoria, Tex.	Aug. 14
Sept. 4	Bayonne, N. J.	July 31
Sept. 4	Peterborough, Ont.	Aug. 14
Sept. 6	Fairview, Pa.	Aug. 14
Sept. 15	Pleasant Grove, Utah	July 24
Sept. 15	St. Paul, Minn.	Aug. 14

FEDERAL GOVERNMENT WORK

Aug. 18	Removing Boulders—Newport, R. I. Adv. July 24.	July 24
Aug. 18	Dredging—Norfolk, Va. Adv. July 31.	July 31
Aug. 19	Repairing Dike — Philadelphia, Pa. Adv. July 17 and 24.	July 24
Aug. 19	Water Pipe—Washington, D. C.	July 31
Aug. 19	Canal Wall—Washington, D. C. Adv. July 31.	July 31
Aug. 19	Water Supply — Stapleton, N. Y.	Aug. 7
Aug. 19	Repairing Wharf—Washington, D. C. Adv. Aug. 7.	Aug. 7
Aug. 20	Metal and Glass Work—Key West, Fla. Adv. July 17.	July 17
Aug. 20	Roofing — Spec. 4005 — Norfolk, Va.	July 31
Aug. 20	Torpedo Racks—Spec. 4008 —Pearl Harbor, H. T.	Aug. 7
Aug. 20	Completing Structural Shop —Spec. 3719—Mare Island, Cal.	Aug. 14
Aug. 20	[illegible]ay Wall—Spec. 3773—Charleston, S. C.	Aug. 14
Aug. 25	Fuel Oil—Washington, D. C.	Aug. 14
Aug. 25	Post Office—Mystic, Conn.	July 31
Aug. 26	Dredging—Honolulu, H. T. Adv. June 26.	June 26
Aug. 27	Sea Wall — New York, N. Y. Adv. July 31.	July 31
Aug. 27	Electric Lighting and Power System, Spec. 3982, Mare Island, Cal.	Aug. 14
Aug. 27	Dredging—Norfolk, Va. Adv. July 31.	July 31
Aug. 27	Lock and Abutment — Louisville, Ky. Adv. July 31.	July 31
Aug. 29	Post Office—Fayette, Mo.	July 24
Aug. 29	Dredging — New York, N. Y. Adv. July 31.	July 31
Aug. 29	Breakwater—Chicago, Ill. Adv. Aug. 7.	Aug. 7
Sept. 2	Towboat—Memphis, Tenn.	Aug. 7
Sept. 2	Miscellaneous Equipment—Washington, D. C. Adv. July 10 and 17.	July 10
Sept. 2	Post Office—Kansas City, Mo.	July 24

Bids Close		See Eng. News-Record
Sept. 2	Dredging, New York, N. Y. Adv. Aug. 7.	Aug. 7
Sept. 5	Post Office — Montevideo, Minn.	Aug. 14
Sept. 8	Post Office—Carroll, Ia.	Aug. 14
Sept. 10	Post Office—Douglas, Ga.	July 31
Sept. 18	Post Office—North Taleda, Kan.	Aug. 14

MISCELLANEOUS

Aug. 18	Mechanical Loader—Hastings, Minn.	July 31
Aug. 18	Culverts, Piers—Grenville, Que.	Aug. 14
Aug. 18	Cast Iron Pipe, Detroit, Mich.	Aug. 14
Aug. 18	Water Tube Boiler, etc., Webster City, Pa.	Aug. 14
Aug. 18	Paving Bricks — Montreal, Que.	Aug. 14
Aug. 19	Tracks—Philadelphia, Pa. Adv. July 24.	July 24
Aug. 19	Channel — Prince Edwards Island	July 31
Aug. 19	Wharf — Dauphin River, Man.	Aug. 7
Aug. 19	Ottawa, Ont.	Aug. 14
Aug. 19	Cement—New York, N. Y.	Aug. 14
Aug. 20	Brooklyn, N. Y.	Aug. 14
Aug. 20	Safety Cars — Saskatoon, Sask. Adv. July 24.	July 24
Aug. 20	Creosoted Wood Blocks, Baltimore, Md.	Aug. 14
Aug. 20	Wharf—Stewart, B. C.	July 31
Aug. 20	Bulkhead, Boston, Mass. Adv. Aug. 7.	Aug. 7
Aug. 20	Retaining Wall—St. John, N. B.	Aug. 14
Aug. 22	Heating, etc., Hudson, N. Y. Adv. Aug. 14.	Aug. 14
Aug. 23	Transit Shed — Halifax, N. S.	Aug. 14
Aug. 25	Railway Ties — Toronto, Ont.	Aug. 7
Aug. 26	Column Foundations—Philadelphia, Pa.	Aug. 14
Aug. 28	Silo—Savannah, Ga.	July 24
Aug. 28	Wharf—Sillery, Que.	Aug. 14
Sept. 12	Dam—Decatur, Ill.	Aug. 14
Sept. 15	Levee—Alexandria, La.	Aug. 14
Sept. 23	Turbines, etc.—Saskatoon, Sask. Adv. July 24.	July 24

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Geneva—Bd. Pub. Wks. plans to install new pumping unit for water supply, 4,000,000 gal. daily capacity. J. W. Brennan, city engr.

Md., Brunswick—City soon receives bids building 3,000,000 gal. concrete storage reservoir, involving 3000 ft. 10 in. c.i. pipe with valves, 3000 cu.yd. concrete and 10,000 cu.yd. earth excav. About $30,000. Address F. L. Spitzer, clk. Norton, Bird & Whitman, 616 Munsey Bldg., Baltimore engrs.

Md., Mt. Airy—City plans to build water storage and pipe system. Bonds for $18,000 voted for project. A. R. Molesworth, mayor.

Minn., St. Paul—Bd. Water Comrs. have completed program for improvements to cover 5 years; 1920 program includes preliminary work on impounding reservoir, cost, $202,500; meters, $1,500, reservoir on Snelling Ave., $160,000, dam, $50,000; total 5 year program includes conduit from Lake Vadnais to here having 65,000,000 gal. capacity every 24 hours, $440,000, low service main from Cayuga St. to congested district and new pumps, $300,000 and 10,000,000,000 gal. impounding reservoir, $525,000. J. C. Flanagan, secy.

Mont., Ryegate—City plans to improve waterworks system. About $25,000. T. R. Atkinson, Bismark, N. D., engr.

Mo., Marysville—A. D. Hewitt, city clk., soon receives bids building water filtration plant. About $50,000.

Mo., Weston—City having plans prepared extending pipe line, also building new well and concrete reservoir. About $20,000. W. B. Rollins & Co., 209 Ry. Exch. Bldg., Kansas City, engrs.

Okla., Ada—City retained Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., to investigate feasibility of water supply. Probable source will be from spring 13 mi. from city, to be conducted to within 1 mi. of city by gravity line and then forced to reservoirs. Present expenditure, $400,000, probable future expenditure, $300,000.

Okla., Carnegie—City election soon to vote on $30,000 bonds to extend waterworks system. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma, engrs.

Okla., Hobart—City plans election soon to vote on $250,000 bonds to improve waterworks system. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma, engrs.

Wash., Pullman — City plans to lay 1000 ft. 4 in. and 1000 ft. 6 in. c. i. mains to replace present wooden pipe. Cost to exceed $5000. C. M. Hooper, Pullman, engr.

Wash., Valley—City plans to lay 2 mi. 12 in. pipe. About $10,000. Washington Surveying & Rating Bureau, Sherwood Bldg., Spokane, engrs.

Cal., Los Angeles—Municipal Impvt. Dist. No. 10 (Westgate annexed section) defeated $90,000 bond issue to build system to distribute water from aqueduct to Angeles Mesa Dist. Noted June 26.

BIDS DESIRED

N. Y., Hudson—See "Miscellaneous."

N. J., Hawthorne—Until Aug. 20, by Boro Comrs., furnishing, laying and placing 6000 ft. 6 in. c. i. pipe, 9 hydrants and 20 valves. J. A. Shea, clk. H. J. Harder, Paterson, engr.; advertised in this issue.

Pa., Phila.—Until Aug. 19, by Bureau Water Supply, 792 City Hall, building superstructures for pumping station, placing valve boxes and furnishing meters for pumping station No. 4, Lardners Point.

Ky., Ashland — Until Aug. 18, by Bd. Water Comrs., building pumping station and filtration plant. Alvord & Burdick, 8 South Dearborn St., Chicago, engrs. Noted July 10.

Mich., Royal Oak—Until Aug. 25, by C. W. Hubbell, engr., 2348 Penobscot Bldg., Detroit, furnishing labor and material laying 15,000 ft. 6-8 in. c.i. pipe water mains in Bronx Subdivision here, for Baker Land Co.

N. S., Berwick—Until Aug. 30, by B. C. Thompson, secy. water comrs., building concrete and timber dam, 1100 ft. high, 2 ft diameter, wood stave flume, power house and wheel pit. Work involves 3000 cu.yd. earth and 1700 cu.yd. rock excav., 800 cu. yd. mass concrete, 1100 ft. 2 ft. wood stave pipe, and 18,000 ft. B.M. timber. Total cost, $27,500. S. E. March, Berwick, engr.

PRICES AND CONTRACT AWARDED

(★Indicates award of contract)

★R. I., North Smithfield (Woonsocket P. O.)—Andrews Mills Co., Branch Village, will lay 2600 ft. c.i. waterpipe and build 40 x 40 ft. rein.-con. pump house and concrete power house with 250 h.p. wheel. Work will be done by day labor.

★Minn., Montevideo — B. O. Bonn, city clk., let contract extending waterworks system, Sect. 2, to Circular Concrete Co., 846 Builders Exch., Minneapolis, $16,625; Sects. 3 and 4, to W. D. Lovel, 2247 Hendon Ave., Minneapolis, $5,621 and $19,638 respectively. Noted July 17.

★Kan., Caldwell—City let contract furnishing 5 mi. 10 in. c.i. pipe to Nat'l Cast Iron Pipe Co., Commerce Bldg., Kansas City, Mo.; laying same to Y. C. Brooks & Son., Jackson, Mich., $14,700.

★Ariz., Phoenix—City let contract draining underground waters, system to have outlet into Gila River, to C. Fisher, 845 North 6th Ave., about $125,000. Work involves 49,500 ft. 18 in. tile pipe.

★Ariz., Phoenix—Union Oil Co. of Arizona, 15th and Santa Fe Sts., will build distributing plant to consist of warehouse, office, pump house, garage, storage tanks, etc. About $100,000. Work will be done by day labor.

Sewers

PROPOSED WORK

Fla., Jacksonville—City voted $200,000 bonds to improve and build sewers. F. M. Edwards, city engr.

Fla., Seabreeze—City soon lets contract building drainage system, involving 2½ mi. vitr. pipe, 100 catch basins and 25 manholes. C. M. Rogers, Daytona, engr.

Mich., Royal Oak—M. L. Brow[illegible], engrs., 821 Chamber of Comm[illegible] Detroit, soon lets contract furnis[illegible] and material for laying 2200 [illegible] vitr. pipe sewer, in Vinsetta [illegible] vision, for Vinsetta Land Co. [illegible] cludes Imhoff tank, ejector st[illegible] sprinkling filter. About $25,000.

Minn., Duluth—See "Streets and Roads."

Minn., Litchfield—F. O. Holt[illegible] Village clk., soon lets contract laying 7[illegible] lin.ft. 8 in. and 2235 lin.ft. 10 in. sewer pipe in Dists. Nos. 11, 12 and 20.

S. D., Elk Point — City election Sept. 7 to vote on bonds to build sewerage system.

N. D., Fairmont—City having plans prepared by W. C. Buck, engr., 1[illegible] West Minehaha Parkway, Minneapolis, for sewerage system.

Wyo., Cheyenne—City voted $30,000 bonds to build storm sewers. E. W. Clatcke, city engr. Noted July 24.

Mont., Sidney—City election Aug. 26 to vote on $30,000 bonds to build 11,000 ft. 18 in. pipe sewer extensions. H. A. Thomas, Sidney, engr.

Idaho, Soda Springs—Town Council soon lets contract furnishing materials and building Sewer Dist. No. 2, involving 32[illegible] ft. 12 in., 8500 ft. 8 in. and 6500 ft. 6 in. vitr. pipe and 5500 cu.yd. excav. A. Meyer, clk.

Ore., Portland—City soon lets contract building vitr. or cement sewers in East 37th and Raymond Ave., East 77th St. north from Oregon to Halsey Sts., Harold Ave. and 55th Ave., S. E., East 76th St. from East Burnside to East Glisan Sts. About $10,000. O. Laurgaard, city engr.

Ore., Portland—City Council adopted resolution to build vitr. or cement sewer in Glisan St. from point 100 ft. west of 10th St. to Willamette River. About $37,366. O. Laurgaard, city engr.

Ore., Portland—City Council soon lets contract building vitr. or cement pipe sewers in East 76th and East 29th Sts. and paving with asphaltic concrete Nos. 1 on crushed rock base or concrete Nos. 1 and 2, East 61st St. and district improvement in Farragut St. et al. About $10,000. O. Laurgaard, city engr. Noted July 10.

BIDS DESIRED

Mass., Fairhaven—Until Aug. 25, by Bd. Sewer Comrs., building 1200 lin. ft. 15 in. and 465 lin.ft. 10 in. sanitary sewers with manholes and appurtenances. Address F. M. Metcalf, 25 Merchants Bank Bldg., New Bedford; advertised in this issue.

Pa., Harrisburg—Until Aug. 18, by Supt. Streets & Pub. Impvts., Room 30, Commonwealth Trust Co. Bldg., building sewer in Penn St., from Seneca to Schuylkill Sts., and in Berkley Pl., 28 ft. east of Reservoir Park.

Pa., Phila.—Until Aug. 20, by Dept. Pub. Wks., Room 412, City Hall, building branch sewers in various streets. A. Allen, city engr.

Pa., Pittsburgh — City receiving bids building 6, 15 and 18 in. sewers in Sebring, Fallowfield, Pioneer and McConnell Aves., Veronica, Sundehan, Berthoud, Wallace and Esplanade Sts. N. S. Sprague, City County Bldg., engr.

Miss., Senatobia — Until Aug. 21, by Town, constructing system of house sewers. Work involves 8 mi. 6-12 in. pipe sewers, manholes, flush tanks, etc. H. I. Gill, clk.; advertised in this issue.

O., Toledo—Until Aug. 19, by D. H. Goodwillie, serv. dir., building Sewer No. 1363, involving 4752 ft. 8 in. vitr. pipe, 16 manholes, etc. About $10,286. H. C. McClure, city engr. Noted July 31.

Mich., Detroit—Until Aug. 18, by C. W. Hubbell, engr., 2348 Penobscot Bldg., furnishing labor and materials for trenching, backfilling and laying 4000 ft. 12[illegible] in. vitr. pipe sewer and 13 brick manholes in Seven Mile Rd., for Lincolnshire Land Co., c/o Engineer. About $15,000.

Mich., New Baltimore—Until Aug. 21, by C. Gibbons, city clk., laying and backfilling complete vitr. crock storm sewerage system in Main, Maria and Alfred Sts., involving 8 and 12 in. pipe. About $14,000.

Mich., Royal Oak—Until Aug. 25, by C. W. Hubbell, engr., 2348 Penobscot Bldg., Detroit, furnishing labor and material laying 15,000 ft. 8-12 in. vitr. pipe sewer, disposal plant, tanks, sand filter and pumping station, in Bronx Subdivision, for Baker Land Co. About $45,000.

Sewer (Continued)

Ia., Hartley—Until Aug. 20, by H. F. Broders, town clk., for construction of 1542 ft. rein.con. rectangular sewer, ranging in size from 5 ft. x 5 ft. to 3 ft. 6 in. x 3 ft., 386 ft. 36 in. circular sewer, vitr. or segmental block, 1340 ft. 33 in. circular sewer, vitr. or segmental block, 2679 ft. 8-24 in. vitr. sewer pipe, etc. H. R. Green, 197 North 2nd St., Cedar Rapids, engr.

Ia., Strawberry Point—Until Aug. 18, by G. Scofield, town clk., for construction of 3000 ft. 8 in. tile sewer, 1400 ft. 6 in. tile sewer, septic tank, dosing chamber, sand filter bed and sludge basin. H. R. Green, 107 North 2nd St., Cedar Rapids, engr.

Minn., St. Paul—Until Aug. 18, by H. W. Austin, city purch. agt., City Hall, building sewers in Cleveland Ave. between University, Myrtle and Wabash Aves., 360 ft. south; James and Juliet Sts. between Underwood Ave. and 185 ft. west of Snelling Ave.; Macalester Ave. between Jefferson Ave., 75 ft. north Juliet Ave. from Juliet St. to point 75 ft. north Palace St.; from Palace St. to point 75 ft. north James St.; James St. to point 75 ft. north Randolph St. O. Claussen, city engr.

PRICES AND CONTRACTS AWARDED
(★Indicates award of contract)

★**R. I., Providence**—City let contract building vitr. sewers in Magnolia St., Freeman Parkway and Laurel Ave., to M. A. Gamino Constr. Co., 428 Grosvenor Bldg.; Delaine St., to N. W. Colgrove, Providence. Total cost, $75,000. Noted July 10.

★**Conn., Portland**—City let contract building vitr. tile sewer in Ocean St., to G. Dascanio, Portland, $10,753.

★**N. Y., Syracuse**—Bd. Contr. & Supply let contract building Sect. D., 17th Ward sewer, to Mondo Constr. Co., Kirk Bldg., $80,507. Noted July 31.

★**N. J., Westmont**—City let contract to W. P. Corson, 1141 Sycamore St., Camden, building 9 mi. sanitary sewerage system, $62,691; disposal plant and pumping station, $26,284. Noted July 31.

★**Pa., Hamarville**—Consumers' Mining Co. let contract building sewage disposal plant, to Pihl & Miller, Wabash Bldg., Pittsburgh. Cost to exceed $10,000.

★**Pa., Pittsburgh**—City let contracts building sewers in Stafford Ave. between Cherry and Chestnut Sts., and Poplar St. between 21st and 26th Sts., to Mayer Bros. Constr. Co., Commerce Bldg., $11,697 and $15,528, respectively; 4th St., between East and Dunn Sts., to J. F. M. Doyle, $7666.

★**N. C., Goldsboro**—City let contract for labor for installing 53,000 ft. 8-12 in. tile sewer pipes in all unsewered streets, to Sullivan, Long & Hagerty, Bessemer, Ala., $53,000; pipe, to Chattanooga Sewer Pipe Co., Ft. Gpie, Chattanooga, Tenn., $11,000. Noted July 10.

★**N. C., Tarboro**—City let contract for labor, for installing 14,400 ft. 6, 8 and 12 in. vitr. sanitary sewers, to F. G. McGuire, 601 Paul-Gale-Greenwood Bldg., Norfolk, Va., $19,135; pipes, to Chattanooga Pipe Wks., Ft. Gpie, Chattanooga, Tenn. $3,025.

Mich., Detroit—City received bids building Virgina Park Relief Sewer from Wilson to 14th Aves., involving 1920 ft. 4 ft. brick or concrete sewer, from W. Blanck & Co., 330 Longfellow Ave., $34,887; Jeynes & Affeld, 1208 Ford Bldg., $37,422; J. Winterbottom, 3274 West 25th St., Cleveland, $39,900.

★**Mich., Detroit**—City let contract building 5200 ft. sewer in Mack Ave. Pub. Sewer, to J. Porath, 34 McGraw Bldg., $118,914. Noted Aug. 7.

★**Ia., Marshallton** — City let contract building sewers in Dist. No. 5, to Anderson & Emple, Marshallton. About $10,000.

★**Minn., Austin**—City let contract building sewers in Hope, Ash and Clark Sts., to De Graff Wolff, 985 Schaffer St., St. Paul, $12,366. Noted July 31.

★**Neb., Lincoln**—City rejected bids received Aug. 2, building 14,800 ft. sanitary sewers. Work will be done by day labor. G. W. Bates, city engr. Noted July 17.

★**Mo., Milan**—City let contract building complete sanitary sewers and sewage disposal plant, to J. O'Neil, Leavenworth, Kan. About $29,000.

★**Okla., Idabell**—City let contract building main sewers and a sewage disposal plant, to Empire Constr. Co., Kansas City, Mo., $65,000 and $54,800 respectively. Noted July 17.

★**Wash., Seattle** — See "Streets and Roads."

Ore., Portland — City Council received bids building sewerage system in East 38th and Knight Sts., from J. Keating, Portland, $12,704, Jacobsen-Jensen Co., 407 Stanton St., $12,585, Azar & Co., Portland, $12,439.

Bridges

PROPOSED WORK

Fla., Jacksonville—City voted $200,000 to improve and build bridges. F. M. Edwards, city engr.

Minn., Fergus Falls—City soon receives bids building 2 concrete bridges, 90 ft. span, 52 ft. wide. About $16,000. A. C. Eschweiler, 720 Goldsmith Bldg., Milwaukee., Wis., engr.

Neb., Henry—Scotts Bluff Co. (Gering) having plans prepared and soon receives bids building rein.-con. arch bridge here, to have twelve 50 ft. spans and 16 ft. roadway. About $70,000. State will appropriate $35,000 toward cost. F. E. Johnson, c/o State Highway Dept., Lincoln, engr.

Neb., Minatare—Scotts Bluff Co. (Gering) having plans prepared and soon receives bids building rein.-con. arch bridge, here, to have twelve 50 ft. spans and 16 ft. roadway. About $70,000. State will appropriate $35,000 toward cost. F. E. Johnson, c/o State Highway Dept., Lincoln, engr.

Neb., Morrill—Scotts Bluff Co. (Gering) having plans prepared and soon receives bids building rein.-con. arch bridge here, to have twelve 50 ft. spans and 16 ft. roadway. About $70,000. State will appropriate $35,000 toward cost. F. E. Johnson, c/o State Highway Dept., Lincoln, engr.

Neb., Scottsbluff—Scotts Bluff Co. (Gering) having plans prepared and soon receives bids building rein.-con. arch bridge here, to have twelve 50 ft. spans, 24 ft. roadway and 4 ft. walks. About $100,000. Federal Government will appropriate toward cost. F. E. Johnson, c/o State Highway Dept., Lincoln, engr.

Tex., Rockwall—See "Streets and Roads."

Cal., Blythe—See "Railways" under California.

Cal., San Bernardino—City election soon to vote on $50,000 bonds to build bridge over Lytle Creek and $10,000 bonds for bridge over Warm Creek. W. L. Brown, city engr.

Cal., Vasalia—See "Streets and Roads."

Ont., Windsor—City and Dominion Government plan to build 2500 ft. suspension type bridge, 90 ft. wide, across Detroit River from Ouelette St., here, to Bates St., Detroit, Mich. J. A. Waddell & Son, 800 Graphic Arts Bldg., Kansas City, Mo., engrs

BIDS DESIRED

R. I., Barrington—Until Aug. 20, by State Bd. Pub. Rds., State House, Providence, building state bridges Nos. 72,106,108 and 122, known as Coventry Center Bridge, Coventry, Oak Valley and Branch River Bridge, Burrillville and Nyatt Bridge, here. Address A. L. Atwood, State Bd. Pub. Rds., Providence; advertised in this issue.

Pa., Harrisburg—Until Aug. 18, by Comrs. Dauphin Co., building 40 ft rein.-con. bridge over Paxton Creek on Shaonix St., 36 ft. wide; 30 ft. rein.-con. bridge over Paxton Creek on Sycamore St., 43 ft. wide; also 76 ft rein.-con. single span bridge over Flushing Creek, 18 ft. wide. C. M. Hershey, First Natl. Bank Bldg., engr.

Pa., Harrisburg—Until Sept. 23, by T. W. Templeton, supt. pub. grounds and bldgs., Commonwealth of Pennsylvania, constructing Soldiers' and Sailors' Memorial Bridge along Park Extension and State St. J. E. Greiner & Co., Fidelity Bldg., Baltimore, engrs. A. W. Brunner, 101 Park Ave., New York City, archt.; advertised in this issue.

Md., St. George Island—Until Aug. 19, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 984 ft. creosoted wooden pile and timber bridge, 14 ft. wide, 10 ft. clear roadway, over Potamac River from here to mainland. About $10,000. J. N. Mackall, state engr. Noted June 12; advertised in this issue.

S. C., Lockhart—Until Aug. 26, at office of Lockhart Mills, Lockhart, building steel highway bridge over Broad River, here; Advertised in this issue.

O., Toledo—See "Streets and Roads."

O., Toledo—Until Sept. 3, by D. H. Goodwille, serv. dir., building 40 ft., through bascule bridge, single leaf, 80 ft. wide, over Swan Creek, cost $65,000; also 80 ft. deck bascule bridge, single or double leaf, 80 ft. wide, on Summit St., $165,000. Bidder to submit own plans and specifications. H. C. McClure, city engr.

Michigan—Until Aug. 20, by State Highway Comr., Lansing, building 200 ft., rein.-con. arch bridge, 24 ft. wide, over Thornapple Creek near Grand Rapids, consisting of one 70 ft. and two 65 ft. spans and 20 ft. roadway, involving 598 cu.yd. rein.-con. and 882 cu.yd. plain concrete. State Trunk Line Bridge No. 93, Kent Co.; 50 ft. span truss bridge over Sturgeon River near Sturgeon, two 10 ft. abutments and 20 ft. concrete flooring, 178 cu.yd. concrete, No. 291, Delta Co.; bridge over Prairie River near Bronson with two 35 ft. girders, 20 ft. roadway, two 8 ft. abutments and one 8 ft. pier, 126 cu.yd. plain and 132 cu.yd. rein.-con., No. 205, Branch Co.; one 35 ft. girder bridge, 20 ft. wide, over Pine River near Standish, two 10 ft. abutments, 183 cu.yd. concrete, No. 257, Arenac Co.; bridge over Bird Creek, Port Austin, two 35 ft. girders and two 12 ft. abutments, 167 cu.yd. plain and 60.8 cu.yd. rein.-con., No. 315, Huron Co.; 40 ft. rein.-con. girder bridge over Hedge Creek at Crystal Falls, 20 ft. roadway, and two 8 ft. abutments, 85 cu.yd. plain and 94 cu.yd. rein.-con., No. 287, Iron Co.; bridge over Hog Creek at Quincy Twp., two 35 ft. rein.-con. girders, 20 ft. roadway, two 7 ft. abutments and one 7 ft. pier, 238 cu.yd. rein.-con., No. 203, Branch Co.

Minn., Duluth—Until Sept. 1, by Comrs. St. Louis Co., building 74 rein.-con. bridge in 6 districts. About $385,000. R. W. Acton, co. engr. Noted July 31.

Minn., Duluth—Until Sept. 9, by W. H. Bargen, treas. St. Louis Co., building 30 rein.-con. and steel bridges in 4th, 5th, 6th and 7th Dists., 18 ft. wide, lengths varying from 20 to 200 ft. About $200,000. R. W. Acton, co. engr.

Minn., Minneapolis — Until Sept. 2, by Comrs. Hennepin Co., building 840 ft. bridge, 20 ft. wide, on Cedar Ave. to have 5 spans and rein.-con. flooring, cost, $160,000; 800 ft. rein.-con. and steel bridge, 24 ft. wide, on Lyndale Ave., to have 100 ft. draw span, $170,000. E. E. Terrell, co. surv. Noted May 15 and July 24.

Minn., Pine City—Until Aug. 18, by A. P. Edin, aud. Pine Co., building Bridge No. 3128 between Sects. Nos. 28 and 29; No. 3125 between Sects. Nos. 25 and 26; No. 3128, 18 ft. rein.-con. slab span; No. 3126, 50 ft. rein.-con. deck girder span; No. 3125, 2 rein.-con. abutments, 36 ft. steel truss, hauled 9 mi. W. J. Buckley, Pine City, engr.

Ark., Marshall—See "Streets and Roads."

Wash., Underwood—Until Aug. 25, by State Highway Comn., Olympia, building 190 ft., steel bridge over White Salmon River, here. Skamania Co. About $10,000. J. Allen, state highway engr.

Ore., Albany—Until Aug. 20, by W. R. Bilyeu, judge Linn Co., building 4 rein.-con. bridges on Pacific Highway, Albany-Tangeut Sect., involving 30,000 lb. reinforcing steel, 450 cu.yd. Class "A" concrete, 324 lin.ft. concrete handrail, etc. About $10,000. D. H. Pierce, co. comr.

Ont., Orangeville—Until Aug. 19, by Wheelock & Christie, engrs., Orangeville building one 4 ft., four 6 ft., one 8 ft., seven 10 ft., two 12 ft., one 14 ft., one 16 ft., one 20 ft., one 22 ft. and three 24 ft. rein. con. bridges and culverts for Dufferin Co. About $60,000.

Ont., Pickering—Until Aug. 19, by W. A. McLean, deputy minister highways, Toronto, building concrete abutments, concrete roadway and sidewalk floors, with other necessary work in connection with construction of bridge on Provincial Highway, and over Duffins Creek, here. About $65,000. G. Hogarth, Parliament Bldgs., Toronto, engr.

Ont., Port Hope—Until Aug. 19, by W. A. McLean, deputy minister highways, Toronto, building four 30 ft. concrete culverts, abutments, etc., on Provincial Highway, from here to Coburg. About $60,000. G. Hogarth, Parliament Bldg., Toronto, engr.

PRICES AND CONTRACTS AWARDED
(★Indicates award of contract)

★**Maine**—State Highway Comn., Augusta, let contract building concrete arch bridge over Gilman Falls, 20 ft. wide, to have three 105 ft. spans and two 25 ft. spans to Cyr Bros., Waterville, $45,925. Work involves 1000 cu.yd. rein.-con., 800 cu.yd. concrete, 53 ton steel, 150 cu.yd. rock and 750 cu.yd. earth excav., etc. Noted Aug. 7.

Bridges (Continued)

Conn., East Lyme—State Highway Dept., Hartford, received lowest bid building concrete and steel drawbridge over Niantic River, from T. A. Scott Co., 292 Pequot Ave., New London, $48,081.

N. Y., Elmira—Bd. Pub. Wks. received bids July 7, building 830 ft. concrete bridge, 80 ft. high, consisting of 8 arches, over Chemung River on Main St., from Walsh Constr. Co., Herald Bldg., Syracuse, (a and b), $315,000, (Jan. 1, 1921); Concrete Steel Bridge Co., Clarksburg, W. Va., (b) $397,800, (July 31, 1921); T. L. Eyre, Commercial Trust Bldg., Phila., (a) $414,032, (b) $378,425, (Apr. 30, 1921); Amer. Bridge Co., 5 steel spans, new piers, $384,900, 5 steel spans, old piers, $356,430, 8 steel spans, 8 new piers, $367,530. Noted June 19.

★**N. J., Hackensack**—Bd. Supervs. Bergen and Hudson Counties let contract rebuilding steel work on Paterson Plank Rd. Bridge over Hackensack River, to Selbach-Meyer Co., 605 22nd St., West New York, $19,900. Noted July 31.

★**Fla., Jacksonville**—Duval Co. let contract furnishing material and building superstruction for steel bridge across St. John River here, to Bethlehem Bridge Corp., City Reality Bldg., Bethlehem, Pa., $534,180; foundations and approaches, to Missouri Valley Bridge & Iron Co., Pennsylvania Ave., Leavenworth, Kan., $374,447. Noted July 3.

★**Mont., Huntley**—State Highway Comn., Helena, let contract building 950 ft. bridge, 16 ft. wide, over Yellowstone River, near here, consisting of five 190 ft. spans, to Security Bridge Co., 502 North 32nd St., Billings, $163,341. Noted July 10.

Mont., Livingston—State Highway Comn., Helena, received bids building 270 ft. bridge, near here, Park Co., from B. M. Crenshaw, Glendive, $37,187; Nelson-Rich, $43,349; L. T. Lawler, Butte, $46,311. Work involves 1000 cu.yd. concrete and 90,000 lb. reinforced steel. Noted July 10.

★**Mont., Toston**—State Highway Comn., Helena, let contract building 529 ft. bridge, 16 ft. wide, over Missouri River near here, to Security Bridge Co., 502 North 32nd St., Billings, $55,334. Noted July 10.

Mont., Victor—Ravalli Co. received bid building 224 ft. bridge, 16 ft. wide, over Bitterroot River, near here, from Buell Bridge Co., Missoula, $17,719; Lord Constr. Co., Hamilton, $17,936. Noted July 17.

★**Ark., Marion**—Comrs. Rd. Impvt. Dist. No. 9 let contract building two 50 ft. steel girder spans and 308 lin.ft. concrete slab bridge, etc., near here, to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, Mo. Work involves 400 cu.yd. excav., $3.15 per cu.yd., 180 cu.yd. plain concrete, $25,625 cu.yd. rein.-con. $31.50, 100 lin.ft. steel girder spans, $54, etc., total cost, $38,205. Noted July 17.

Reinforced Concrete

PROPOSED WORK

Minn., Fergus Falls—See "Bridges."

BIDS DESIRED

O., Toledo—See "Streets and Roads."

Michigan—See "Bridges."

Minn., Duluth—See "Bridges."

Minn., Minneapolis—See "Bridges."

Ont., Orangeville—See "Bridges."

Ont., Pickering—See "Bridges."

Ont., Port Hope—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Cal., Los Angeles—See "Industrial Works."

Streets and Roads

PROPOSED WORK

Pa., Emsworth (Pittsburgh P. O.)—Boro plans to grade, pave and curb Locust St., vitr. brick pavement and stone curbing. About $15,000. P. H. Martin, 331 4th Ave., Pittsburgh, engr.

Pa., Pittsburgh—City passed ordinance to grade, curb and gutter Webster Ave. from Orion St. to Alpena Way. About $57,000. T. Reed, city engr.

Pa., Turtle Creek—Boro. election soon to vote $200,000 bonds to improve streets.

Pa., Turtle Creek—City rejected bids repaving Pennsylvania Ave. Work will be readvertised. Noted Aug. 7.

Pa., Turtle Creek—City having plans prepared by Harrop & Hopkins, archts., Home Trust Bldg., Pittsburgh, grading, paving and curbing 600 ft. Greensburg Ave., 30 ft. wide, involving 1800 sq.yd. vitr. brick on granite slag base and 1200 lin.ft. concrete curbing and guttering. Cost to exceed $10,000.

Md., Baltimore—See "Industrial Works."

W. Va., Huntington—Comrs. Cabell Co. rejected bids paving 1 mi. Huntington-Hamlin Rd., 16 ft. wide, involving 9300 sq.yd. vitr. brick on 4 in. cement concrete base. About $35,000. Oliver & Maupin, Huntintgon, engrs. Noted July 24.

W. Va., Morgantown — Monongalia Co., Union Dist., election Sept. 6, to vote on $150,000 bonds to build roads. L. M. Cox, co. engr.

Fla., Jacksonville—City voted $200,000 bonds to improve and build streets. F. N. Edwards, city engr.

Ohio—State Highway Comn., Columbus, rejected bids received Aug. 5, grading, building bridges and culverts and paving 5.49 mi. Sect. G, St. Mary's Celina Rd., plain concrete, Mercer Co.; 3.52 mi. Sect. F, Sidley-Wapakoneta Rd., plain concrete or bituminous macadam, Shelby Co.; 4.0009 mi. Sect. A, 3.831 mi. Sect. B, 3.579 mi. Sect. C, 2.653 mi. Sect. D, and 2.617 mi. Sect. E, Akron-Cleveland Rd., rein.-con., Summit Co. Noted July 24.

O., Springfield—City plans to repave Fountain Square, involving 2500 sqyd. vitr. brick on concrete base. About $11,500. O. E. Carr, City mgr.

Michigan—F. F. Rogers, State Highway Comr., Lansing, soon lets contract furnishing labor and material for grading, shaping, draining, gravel surfacing, etc., 3.289 mi. State Trunk Line Rd. No. 24-1, 16 ft. wide, Austin and Colfax Twps., Mecosta Co.; 3.780 mi. State Trunk Line Rd. No. 12-1, 16 ft. wide, St. Ignace Twp., Mackinaw Co.; 7.083 mi. State Trunk Line Rd. No. 25-3, 16 ft. wide, Lakefield Twp., Luce Co., all gravel; 1.236 mi. State Trunk Line Rd. No. 11-3, 16 ft. wide, Olive Twp., Ottawa Co.; 3.155 mi. State Trunk Line Rd. No. 50-1, Ridgeway Twp., Lenawee Co., both bituminous concrete or concrete surface.

Michigan—State Highway Dept., Lansing, plans to grade, drain and surface with concrete or bituminous concrete, 1.236 mi. Trunk Line Rd., No. 11-3, 16 ft. wide, Ottawa Co., involving 6421 cu.yd. excav., 11,602 sq.yd. bituminous concrete or 2363 cu.yd. concrete.

Mich., Detroit—City soon lets contract paving Fenkell Ave. from 12th to Livernois Sts., 26 ft. wide, sheet asphalt; Colfax Ave. from Warren to Milford Sts., Clements Ave. from Herman to 12th Sts., Florida Ave. from Michigan to Radcliffe Sts., Fullerton Ave. from Oakman Blvd. to Wabash Ave., Northfield Ave. from Warren to Tireman Sts., Otsego Ave. from Joy to Graham Sts., Olivet St. from Distel to Woodmere Sts., Pingree Ave. from Linwood St. to Dexter Blvd., Schroeder Ave. from West Jefferson to South Sts., Sylvan St. from McKinley to Vincent Sts., Wilson Ave. from Hazelwood to Taylor Sts., 24-26 ft. wide, asphaltic concrete on 6 in. concrete foundation, berea, medina or amherst curbstone. Work involves 42,378 cu.yd. excav., 46,277 lin.ft. curbstone and 71,132 sq.yd. paving, etc. C. W. Hubbell, city engr.

Ill., Chicago—Bd. Local Impvts. rejected bids received July 23, paving North State St. from Madison to Randolph Sts., and from Randolph to South Water Sts. C. D. Hill, ch. engr. Noted Aug. 7.

Wis., Sheboygan—City plans to grade and pave 1.3 mi. Georgia Ave., from 6th to 17th Sts. and city limits, 18 ft. and 20 ft. wide, involving 7500 sq.yd. concrete and 2900 lin.ft. concrete curb and gutter. Cost between $17,000 and $20,000. C. U. Boley, city engr.

Minn., Duluth—J. A. Farrell, city comr., soon lets contract improving 3262 ft. 22nd Ave., W., from Superior to 7th Sts., 24 ft. wide, involving 3708 sq.yd. vitr. brick, 4790 sq.yd. concrete, 4967 lin.ft. concrete curbing, 13,080 sq.ft. retaining wall and 1643 ft. 12-18 in. sewer pipe. About $57,043. E. K. Cae, city engineer's office, engr.

Minn., Little Falls—Comrs. Morrison Co. rejected bids received Aug. 5, grading and graveling 24 mi. Federal Aid Project No. 24, 18 ft. wide. About $120,000. Work may be readvertised. Noted July 24.

Kan., Minneapolis—Comrs. Ottawa Co. plan to hard surface 25 mi. Meridian Rd., from Cloud Co. line to Minneapolis, to Bennington and to Saline Co. line. J. H. Boyle, co. engr.

Montana—State Highway Comn. rejected bids received July 25, [illegible] surfacing 18 mi. Sun River Rd., [illegible] Co. and 3 mi. Billings-Cody Way, Carbon Co. Federal Aid Project No. 4. [illegible] Pratt, state highway engr. Noted July 24.

Mo., Bethany—Harrison Co. rejected bids received July 23, grading, paving with concrete, laying macadam shoulders, etc., on 9.4 mi. State Rd. No. 8, 9 ft. wide. M. G. Hall, Centerville, Ia., engr. Noted July 10.

Mo., Carthage—Jasper Co. election Sept. 19, to vote $700,000 bonds to build hard surface roads.

Mo., Clinton—Henry Co. election Sept. 5 to vote on $150,000 bonds to build hard surface roads.

Mo., Grant City—Worth Co. election soon to vote $500,000 bonds to build hard surface roads.

Mo., Houston—Texas Co. voted $225,000 bonds to build Ozark Highway. C. L. Johnson, presiding judge.

Mo., Poplar Bluff—Comrs. Butler Co. soon receives bids building 50 mi. St. Louis-Poplar Bluff Rd. and Jefferson City-Poplar Rd., through Arcadia Valley, concrete. About $1,100,000. E. C. Nickey, Poplar Bluff, co. highway engr.

Mo., Shelbyville—Shelby Co. election soon to vote $1,000,000 bonds to build hard surface roads.

Mo., Springfield—Green Co. election Sept. 15 to vote $2,000,000 bonds to build hard surface roads.

Tex., Corpus Christi—Comrs. Nueces Co. voted $2,000,000 bonds to build roads. Engineer not selected. Noted July 3.

Tex., Eastland—Eastland Co., plans election to vote on $3,000,000 bonds to improve 100 mi. highway.

Tex., Falfurrias—Brooks Co. soon lets contract excavating, grading, sub-grading, caliche surfacing, excavating and building concrete drainage structures on 19.75 mi. State Highway No. 12 from Encino to south line Brooks Co., 16 ft. wide. Work involves 10,358 mi. machine grading, 14,025 cu.yd. unclassified earth excav., 1293 lb. reinforced steel, etc. About $37,701. H. S. Bedell, Falfurrias, engr.

Tex., Granbury—Hood Co. soon lets contract building 6 mi. waterbound macadam road with bituminous surface and concrete drainage structures on State Highway No. 10 from Erath Co. line to Tolar, 16 ft. wide. About $85,000. G. Tarrant, co. judge. Burks, Firmin & Hart, Granbury, engrs. Noted June 19.

Tex., Oakville—Live Oak Co. voted $60,000 bonds to build lateral roads and State Highways Nos. 9 and 12B. Engineer not selected. T. H. Miller, co. judge.

Tex., Rockwall—Rockwall Co. plans to build 13.36 mi. Highway No. 1 from Dallas Co. line to Collin Co. line, 18 ft. wide, 1 course plain and 1 course rein.-con. pavement, involving rein.-con. drainage structures, concrete trestle, 1200 ft. bridge across levee of Trinity River, 140,000 sq.yd. concrete pavement and 410,000 lb. steel. About $544,816. J. Montgomery, Rockwall, engr.

Okla., Ada—City having plans prepared paving 50 blocks. About $500,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Okla., Stroud—City having plans prepared paving 5 blocks. About $40,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Idaho, Fairfield—Town soon lets contract building and furnishing 20,650 lin.ft. 4 in. sidewalks, and 5960 lin.ft. 6 in. crossings. S. Stinton, clk.

Idaho, Malad—Oneida Co. voted $250,000 bonds to improve highways. J. H. Giles, Pocatello, engr.

Idaho, Payette—Payette Co. voted $200,000 bonds to build roads. J. Smith, co. clk.

Idaho, Rupert—City plans to pave, curb and gutter various streets. About $118,500.

Idaho, Sandpoint—Bonner Co. plans to grade and drain 7 mi. Bottle Bay Rd. About $20,000. C. W. Wilson, Sand Point, engr.

Idaho, Soda Springs—Town Council soon lets contract building 80,096 sq.ft. 4 in. sidewalks, 11,200 sq.ft. 6 in. crossings and 1500 cu.yd. excav. A. Meyers, clk.

Utah—State Highway Comn. Salt Lake City, soon lets contract paving 2.1 mi. state road from Ray to present city limits, and 4 mi. from North Ogden to Utah Hot Springs, involving (a) 6-8 in. monolithic concrete, (b) 2 in. bitulithic top on 6 in.

...ets and Roads (Continued)

...concrete base, (c) 2 in. bitulithic top on 4 in. block base, (d) 2 in. bitulithic top on 4 in. crushed rock base, (e) 2 in. bitulithic top on present tarvia base. I. R. Browning, c/o State Highway Dept., Salt Lake City, engr.

Utah—State Highway Comn., Salt Lake City, election Aug. 29, to vote on $65,000 bonds to hard surface state road from St. George to state line. I. R. Browning, state highway engr.

Utah, Fairview—City soon lets contract laying 7000 lin.ft. sidewalk, 4 in. thick, 5 ft. wide. J. Bench, Fairview, engr.

Wash., Aberdeen—City election Aug. 26, to vote on $125,000 bonds to replace east end trestle with permanent highway. P. F. Clark, city engr.

Wash., Colville—City plans to grade, gravel and build concrete sidewalks on Astor Ave. from Hofstetter to Oak Sts. Cost to exceed $10,000.

Wash., Wenatchee—Chelan Co. plans election in September to vote on $830,000 bonds to improve roads.

Ore., Astoria—City Council soon lets contract improving, removing old walks, paving, laying drainage pipes and building curbs on 3rd and 42nd Sts., involving 4770 lin.ft. concrete curbing, 516 lin.ft. concrete sidewalks, 3280 cu.yd. common excav., 96,-260 ft. 4 x 12 in. planking, 425 ft. 10 x 10 in. splicers, 6830 lin.ft. railing, 1270 ft. vitr. pipes, etc. About $10,000. G. T. McClean, city engr.

Ore., La Grande—Union Co. plans election to vote on $1,500,000 bonds to build permanent highways.

Ore., Oregon City—Moody Investment Co. having surveys made for platting tract of land having about 50,000 ft. water frontage on Williamette River between suspension bridge and river, involving laying out streets, cross streets, alleys and subdividing into about 1000 lots. About $10,000. S. O. Dillman, 8th and Main Sts., mgr.

Ore., Portland—City soon lets contract paving with concrete Nos. 1 and 2, or asphaltic concrete Nos. 1 and 2, on crushed rock base, East 13th St. from Humboldt to Alberta Sts., East 30th St. from Ainsworth Ave. to Holman St., East 68th St. from Sandy Blvd. to Siskiyou St., East 12th St. from Going to Alberta Sts., Leo Ave. from East 13th to Milwaukee Sts., Emerson St. from Delaware to Denver Aves., East Market St. from East 29th to East 30th Sts., Linn Ave. from East 9th to East 11th Sts., including laying of rails (weight and pattern approved by City Council), concrete base between ties, 2 in. ballast under ties and planking tracks on East 9th St., cost to exceed $10,000; also Stockton St. from Oberlin to Lombard Sts., East 72nd St. from Thorburn Ave. to East Glisan St., East 33rd St. from Fremont Ave. to Shaver St., East 6th St. from Jarrett St. to Ainsworth Ave., Jarrett St. from Union Ave. to East 9th St., East 33rd St. from Kelly to Tibbetts Sts., Tibbetts St. from East 31st to East 35th Sts., Killingsworth Ave. from East 30th to East 42nd Sts., 46th Ave. from 67th Ave. to Kern Park, East 6th St. from Umatilla to Spokane Aves., Tacoma Ave. from East 6th to East 15th Sts., Smith Ave. from Fessenden to Bristol Sts., 5th Ave. from Taylor's Ferry Rd. to Nevada St., Webster St. from Gay St. to Denver Ave., East Carruthers St. from East 26th St. to Brush's 2nd Addition. $25,000. O. Laurgaard, city engr.

Ore., Portland—See "Sewers."

California—Until Aug. 18, by State Highway Comn., 515 Forum Bldg., Sacramento, paving 10.7 mi. road between southerly boundary Kern Co. and 2.3 mi south Rose Sta., involving 10,000 cu.yd. excav. and 14,600 cu.yd. Class "A" Portland cement concrete pavement; 1.9 mi. road between Santa Clara River and Williams Ranch, Los Angeles Co., 21,000 cu.yd excav., 2500 cu.yd. Class "A" Portland cement concrete pavement, etc. A. G. Fletcher, state highway engr.

Cal., Tulare—City had estimates prepared paving 3 streets, probably concrete. About $31,000. A. P. Bosworth, city engr.

Cal., Visalia—Bd. Supervs. Tulare Co., U. S. Forest Serv. and Southern California Edison Co., Edison Bldg., Los Angeles, plan to jointly build 16 mi. road from Springville to Camp Nelson. Each will contribute $27,000. Work involves grading and building timber bridges and culverts, etc.

Ont., Ottawa—Bd. Control soon receives bids asphalt paving Queen St. from Bay St. to Bronson Ave., cost $10,800; King Edward Ave. from Laurier Ave. to Rideau St., $25,000; Bessemer St. from Charlotte St. to east limit of lot 58, $10,900. A. F. Macallum, city engr.

BIDS DESIRED

N. Y., Brooklyn—Until Aug. 20, by E. Riegelmann, boro. pres., regulating and repaving with permanent asphalt and Grade 1 granite on 6 in. concrete base, central portion of roadway, Atlantic Ave. from Washington to Classon Aves., Atlantic Ave. from Classon to Bedford Aves., Bedford Ave. from Grant to South 2nd Sts., Classon Ave. from Hewes St. to Flushing Ave., East 18th St. from Ave. O to Ave. P, Sprague Alley from Fulton to Liberty Sts., 83rd St. from 19th to 20th Aves., also regulating, grading, curbing and laying sidewalks on East 18th St. from Ave. O to Ave. P, Vermont Ave. from Highland Blvd. to Bulwer Pl., excludng sidewalks on westerly side along Evergreen Cemetery.

N. Y., S. I., St. George—Until Aug. 21, by C. D. Van Name, pres. Richmond Boro., repaving Richmond Terrace from Western Ave., to Elizabethport Ferry, bituminous macadam, Richmond Terrace from Treadwell Ave. to Harbor Rd., napped granite rock on concrete foundation and wood block on present foundation, repairing Castleton Ave. from Clove Rd. to Caroline St. and from State St. to Bway., wood block Brook St. from Richmond Turnpike to Jersey St., asphaltic block and wood block, Castleton Ave. from Bard to North Burgher Aves., asphalt block, Richmond Terrace from Davis to Campbell Aves., Wadsworth Ave. from Bay St. to Tompkins Ave., macadam, Bay St. from Bayview to Wadsworth Aves., bituminous concrete.

New Jersey—Until Aug. 27, by State Highway Comn., Broad St. Bank Bldg., Trenton resurfacing Brown's Mills-Lakehurst Rd., Burlington Co., involving 13,170 cu.yd. gravel surfacing. A. L. Grover, ch. clk.; advertised in this issue.

N. J., Bordentown—Until Aug. 26, by City Comrs., paving various streets involving 7000 cu.yd. concrete and 1750 cu.yd. excav. J. R. Malone, clk.; advertised in this issue.

N. J., Camden—Until Aug. 28, by C. F. Wise, chn. Stone Rd. Com., improving portion King's Highway, Haddonfield Twp., Camden Co., involving 7715 sq.yd. bituminous surface on concrete foundation. F. W. George, clk.; advertised in this issue.

N. J., Trenton—Until Aug. 26, by Bd. Freeholders Mercer Co., building 1600 ft. Sect. 2-A River Rd., Hopewell Twp., involving 16,000 cu.yd. fill for heavy embankment, sodding slopes of same and building 4300 su.yd. macadam road to be utilized as future foundation for bituminous pavement, which bituminous pavement will not be part of present work. Former bids rejected. W. C. Fowler, clk.; advertised in this issue. Noted Aug. 7.

Pennsylvania—Until Sept. 2, by State Highway Dept., Harrisburg, building roads in Adams, Butler, Carbon, Centre, Chester, Clarion, Clearfield, Clinton, Crawford, Erie, Indiana, McKean, Mifflin, Potter, Snyder, Susquehanna, Tioga, Warren and York Counties. L. S. Sadler, state highway comr.; advertised in this issue.

Pa., Chester—Until Aug. 18, by B. Newsome, city clk., for following Schedule A-1150 sq.yd. granite block paving, 11,900 sq. yd. asphalt or bituminous paving (assessment work), 500 ft. straight and 30 ft. curved 6 in. granite curb, Schedule B 15,720 sq.yd. asphalt or bituminous paving (assessment work), Schedule C, 8565 sq.yd. concrete or bituminous paving (assessment work). C. G. Worrilow, supt. streets and pub. impvts.

Pa., Monesson—Until Aug. 23, by city, grading, paving and curbing various streets. About $90,000. A. W. Johns, Monesson, engr.

Pa., Phila.—Until Aug. 18, by Dept. Pub. Wks., City Hall, gradings sections of Cheltenham, Michener, Williams, Dorcas, Jackson, Osceola and Oxford Sts. Schedule "A," paving with asphalt (assessment work) sections of Hutchinson, Warrington, Windsor, Winghocking, 6th, 7th, 16th and 26th Sts.; Schedule "B," paving with bituminous macadam section of Benexet St.; Schedule "C," repaving sections of Emerald, Norris, Ridge and Susquehanna Sts.; Schedule "D," repaving with redressed granite block sections of Front, Kensington and Germantown Sts.; Schedule "E," with wood block section of Columbia Ave., Schedule "F", improving 8th St., Schedule "G," furnishing and placing granite curb on Fairmount St.; Schedule "H," painting and repairing bridges on Belmont and Girard Aves., Germantown Ave., 6th St. and Allegheny Ave., and 57th St., Schedule "I." G. E. Datesman, dir.

Pa., Pittsburgh—City receiving bids grading, paving and curbing Fallowfield Avenue, Singer, Exeter, Aschenez, Jean, Veronica, Cowan and Stadium Sts., regrading, repaving and recurbing Stafford St. and Sebring Ave. N. S. Sprague, City County Bldg., engr.

Del., Middletown — Until Aug. 27, by Town Council, paving Broad and Main Sts., involving 5000 cu.yd. excav., 5100 lin. ft. curbing, 1200 sq.yd. guttering and 13,000 sq.yd. sheet. Alternate bids for concrete, broken stone base with sheet asphalt or penetration macadam surface. C. M. Upham, c/o State Highway Dept., Dover, ch. engr.; advertised in this issue.

Maryland—Until Aug. 26, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 1 mi. road from Benfield toward Seven Cross Rds., concrete, Federal Aid Project No. 36, Contr. AA-16, Anne Arundel Co.; 2 mi. road from Boonsboro to Keedysville, concrete Federal Aid Project No. 35, Contr. W-17, Washington Co. F. H. Zouck, chn.; advertised in this issue.

Md., Baltimore — Until Aug. 20, by Bd. Awards, c/o City Register, furnishing materials and flushing surface of Edmondson, Forest, Forest Park, Rogers and Greenspring Aves. G. H. Weighardt, highway engr.; advertised in this issue.

Va., Newport News—Until Aug. 21, by city, grading and paving 60,000 sq.yd. various streets, concrete. T. E. Pearse, city engr.

W. Va., Martinsburg—Until Aug. 28, by F. A. Hobbs, clk. Berkeley Co., building 8 mi. Martinsburg-Winchester Rd., bituminous macadam 16 ft. wide. Noted July 31.

W. Va., Welch—Until Aug. 27, by Comrs. McDowell Co. building and grading 6 mi. Top Mountain Rd., waterbound macadam, also road from Simmons to McDowell, 18 ft. wide. W. J. McClaren, co. engr.

N. C., Elizabethtown—Comrs. Bladen Co. receiving bids improving 65 mi. roads White Creek Twp. About $30,000. Engineer not selected.

Ga., Moultrie—Until Sept. 3, by Comrs. Colquit Co., paving 4.5 mi. Moultrie-Camilla Rd., 9 ft. wide, with necessary draining, grading, etc. About $100,000. O. H. Lang, Moultrie, engr.

Ga., Washington—Until Sept. 2, by Comrs. Wilkes Co., paving 3.327 mi. Athens and Augusta Highway, 18 ft. wide, with necessary draining, grading, etc. About $125,000. H. S. Jandon Eng. Co., Elberton, engrs.

Alabama—Until Aug. 20, by State Highway Dept., Montgomery, resurfacing 7.1 mi. highway on Telegraph Rd., from Axis to Mt. Vernon, clay gravel. W. S. Keller, state highway engr.

Ala., Sylacauga—Until Sept. 2, by City Council, laying 29,000 ft. 5 ft. sidewalk and 2800 ft. curb and gutter. E. S. Howard, city clk.

O., Columbus—Until Aug. 19, by G. A. Borden, dir. pub. serv., grading, draining, curbing, laying water mains and paving 10,096 ft. 5th Ave. from Perry St. to alley west of Parker St., 30 and 36 ft. wide, involving 25,700 yd. asphalt, cost $127,407; 448 ft. Findlay Ave. from Olentangy St. to north terminus, 24 ft. wide, 1300 yd. asphalt or brick, $8,300; also grading, draining, curbing, laying water mains and repaving 1112 ft. Dennison Ave. from 5th to King Aves., 30 ft. wide, 4120 yd. asphalt on present brick surface, $14,600. H. A. Maetzel, city engr.

O., Toledo—Until Sept. 3, by D. H. Goodwillie, serv. dir., extending Summit St., by building 750 ft. timber revetment, cost $20,000, 150 ft. rein.-con. viaduct, $50,000, 400 ft. rein.-con. retaining wall, $70,000, involving 90,000 cu.yd. earth excav., 5000 cu.yd. mass and rein.-con. and 70 tons reinforcing steel. H. C. McClure, city mgr.

O., Toledo—Until Aug. 19, by D. H. Goodwillie, serv. dir., paving 2629 ft. Bennett Rd. from Sylvania Ave. to city limits, 24 ft. wide, involving 7064 sq.yd. vitr. brick, 5262 lin.ft. curbing and 5114 cu.yd. earth excav., cost $40,000; 1640 ft. Nevada St. from Spring Grove Ave to city limits, 26 ft. wide, 5141 sq.yd. vitr. brick, 3360 lin.ft. stone curbing, 2620 cu.yd. earth excav., $28,998. H. C. McClure, city engr. Noted Apr. 17 and Aug. 7.

O., Westerville—Until Aug. 23, by R. W. Orebaugh, city mgr., paving East Park St., bituminous macadam, and East and West Main St., brick; advertised in this issue.

Streets and Roads (Continued)

Indiana—Bd. Co. Comrs. building roads in following counties:

Aug. 25, Lake Co., Crown Point, building gravel road, Calumet Twp., known as H. M. McCraken road; gravel road in Hobart Twp., known as L. E. Barnes Rd. G. M. Foland, co. aud.

Vanderburgh Co., Evansville, rock and gravel road, Knight Twp., known as Green River Rd. W. Copeland, co aud.

Aug. 26, Madison Co., Anderson, concrete road, Adams Twp., known as J. Starr et al road, 44,132 ft., in length. E. T. Flahavin, co. aud.

Sept. 8, Lake Co., Crown Point, gravel road, Ross Twp., known as J. Kaiser Rd.; gravel road, St. John Twp., known as J. Backe road; gravel road, in Cedar Creek Twp., known as H. M. Walls et al Rd. G. M. Foland, co. aud.

Ind., Greenfield—Until Aug. 29, by Comrs. Hancock Co., grading, draining, culverting, bridging and paving with gravel waterbound macadam and concrete, 4 roads in 3 townships. C. Boone, co. engr.

Michigan—Until Aug. 19, by State Highway Comr., Lansing, building 2.596 mi. gravel road north of Owasso, 16 ft. wide, Rush and New Haven Twps., Shiwasse Co.; bids will also be received for this section at office of Co. Rd. Comn., Corunna.

Michigan—Until Aug. 16, by State Highway Dept., Lansing, grading, surfacing with concrete or bituminous concrete and building drainage structures on 3.155 mi. State Trunk Line Rd. No. 50-1, 18 ft. wide, Lenawee Co., involving 4954 cu.yd. excav. Alternate bids will be received on 6941 cu.yd. concrete and 33,317 sq.yd. bituminous concrete on 6 in. concrete base.

Michigan—Until Aug. 21, by State Highway Dept., Lansing, grading, surfacing with concrete and macadam and building drainage structures on 7.661 mi. road, 16 ft. wide, Lenawee and Monroe Counties, involving 2249 cu.yd. concrete, 60,875 sq.yd. waterbound macadam and 18,825 cu.yd. excav. About $138,000. F. F. Rogers, comr.

Michigan—Until Aug. 23, by State Highway Dept., Lansing, grading, surfacing with gravel and building drainage structures on 5.026 mi. State Trunk Line Rd. No. 72-1, 15 ft. wide, Alcona Co., involving 44,229 sq.yd. gravel and 23,978 cu.yd. earth excav.

Ill., Granite City—Until Aug. 16, by Bd. Local Impvts., improving B St. from 19th to 25th Sts. and North 24th St. from B to C Sts., known as "B St Paving Dist. No. 2", involving 14,100 sq.yd. rein.-con. pavement, 16,100 sq.yd. earth excav., 9500 lin.ft. concrete curb and gutter, 850 lin.-ft. 8-12 in. sewers, etc. B. E. Hodges, pres.; advertised in this issue.

Wis., Manitowoc—Until Aug. 19, by A. H. Zande, city engr., grading, paving, curbing and guttering 1.7 mi. South 16th St. from North 21st to South 25th Sts., 18 ft. wide, involving 10,500 sq.yd. concrete, etc. About $18,000.

Wis., Reedsburg—Until Aug. 19, by City Clk., grading and paving 2.8 mi. East Main St., between East Oak St. and Dewey Ave., 18 ft. wide. Work involves 35,000 sq.yd. vitr. brick and 5500 lin.ft. concrete curb and gutter. About $40,000. A. F. Niebuhr, city engr. Noted Aug. 7.

Minn., Anoka—Until Aug. 19, by A. A. Caswell, aud. Anoka Co., improving State Rd. No. 3, Job No. 1805, involving 4 acres clearing and grubbing, 5273 cu.yd. excav., concrete culverts, etc. H. H. Thursten, Anoka, engr.

Minn., Minneapolis—Until Sept. 2, by Comrs. Hennepin Co., grading and gravelling 1¼ mi. approaches to Cedar Ave. Bridge, 24 ft. wide. About $56,000. E. E. Terrell, co. surv.

Neb., Stockville—Until Aug. 25, by A. G. Williams, clk., Frontier Co., grading 12 mi. Curtis-Stockville Rd., 24 ft. wide. About $40,000. G. E. Johnson, c/o State Highway Dept., Lincoln, engr.

N. D., Grafton—Until Sept. 2, by city, paving Impvt. Dist. No. 1, involving 6850 sq.yd. street paving and guttering, 3743 lin.ft. concrete curbing and 1333 sq.yd. concrete alley pavement.

Montana—Until Aug. 23, by State Highway Comn., Helena, gravel surfacing 5 mi. Manhattan-No. 1 Ranch Rd., Gallatin Co., involving 13,000 cu.yd. excav. and 47,000 sq.yd. gravel surface. P. D. Pratt, Helena, state highway engr. Noted Jan. 23, under "Bozeman."

Ark., Helena—Until Aug. 28, by E. P. Molitor, pres. Bd. Comrs., building 34.83 mi. West Helena-Marvell Rd., 16 ft. wide. C. H. Purvis, Helena, engr.; advertised in this issue.

Ark., Helena—Until Aug. 28, by Comrs. of Helena and Old Town Rd. Impvt. Dist., at office of S. Adams, Solomon Bldg., building 15 mi. road. Bids will be received for (1) gravel, asphaltic, macadam (penetration method); (2) asphaltic, macadam or Warrenite on concrete or gravel base; (3) Portland cement concrete on course road. J. M. Quarles, Helena, engr.; advertised in this issue.

Ark., Marshall—Comrs. Searcy Co. receiving bids improving 90 mi. roadway, involving 1600 lin.ft. steel bridges, 100 ft. long. Winn Eng. Co., Little Rock, engrs.

Idaho, Boise—Until Aug. 22, by Comrs. Pub. Wks., grading and graveling 30.5 mi. road from New Meadows to Whitebird, 12 ft. wide. Cost will exceed $100,000. D. P. Olson, c/o State Highway Dept., Boise, engr.

★**Washington**—Until Aug. 25, by State Highway Bd., Olympia, clearing, grading and draining 5.5 mi. Pacific Highway from Blanchard to Allen, Skagit Co.; 1.9 mi. Pacific Highway from Marysville to Silvana, Snohomish Co., clearing, grading, draining, and surfacing 6.7 mi. Pacific Highway from Castle Rock north, gravel, Cowlitz Co.; 4 mi. North Bank Highway from Camas west, concrete, Clarke Co.; 6.5 mi. Olympic Highway, Post Rd. Project No. 29, gravel, Jefferson Co.; 6 mi. Olympic Highway from Lake Quinault northwest, Project No. 29, gravel or plank, Grays Harbor and Jefferson Counties; 5.6 mi. Olympic Highway Post Rd. Project No. 29, gravel or plank, Grays Harbor Co.; 5.5 mi. Olympic Highway from Lake Quinalt (west side). Natl. Forest Rd. Project, gravel, Grays Harbor Co.; 21.9 mi. Inland Empire Highway from Colfax to Central Ferry, crushed rock, Whitman Co.; 7.8 mi. Tyler-Cheney Sect., Central Washington Highway, 16 ft. wide, crushed rock, Spokane Co., $50,000. J. Allen, state highway engr.

Wash., Tacoma—Until Oct. 10, by Bd. Comrs., Pierce Co., clearing, grubbing, grading and paving 95 mi. roads. Bonds for project voted May 31. E. A. White, co. engr.; advertised in this issue.

California—Until Aug. 25 by State Highway Comn., Sacramento, grading 9.4 mi. road between westerly boundary and Lakeport, Lake Co., involving 104,600 cu.yd. excav., 300 cu.yd. Class A Portland cement, etc.; paving 3.6 mi. road, between Divide and Orcutt, Santa Barbara Co., 12,500 cu. yd. excav., 3600 cu.yd. Class A Portland cement, etc.; 5.2 mi. road between southerly boundary and Conejo Grade, Ventura Co., 1500 cu.yd. excav. and 7000 cu.yd. Class A Portland cement; 5.2 mi. road between Lankershim Blvd. and South Sherman Way, Los Angeles Co., 1730 cu.yd. Class A Portland cement, 48,100 sq.yd. asphalt surface, etc.; 1.3 mi. road between Russell Ranch and westerly boundary, Los Angeles Co., 1600 cu.yd. Class A Portland cement. A. B. Fletcher, state highway engr. Noted July 31.

Que., St. Martine—Until Aug. 30, by N. Mallette, secy.-treas. municipality, building 5 mi. bituminous macadam road including bridges.

Ont., Toronto—Until Aug. 18, by W. A. McLean, deputy minister highways, grading and paving with bituminous macadam Sect. 1, 15.93 mi. from easterly limit of London, to westerly limit of Town of Ingersoll, Sect. 2, 15.62 mi. from easterly limit of Brandtford to Village of Lancaster, Sect. 3, 3.25 mi. from easterly limit of Village of Beamsville, Sect. 4, 913. mi. easterly limit of Town of Trenton to westerly limit of Belleville, Sect. 5, 7.72 mi. westerly limit of Kingston to westerly limit of Kingston Twp., Sect., 6, 10.46 mi. easterly limit of Brockville to westerly limit of Town of Prescott; all located on Provincial Highway and 20 ft. wide. Total cost, $200,000. G. Hogarth, Parliament Bldg., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Vermont**—State Highway Comn., Montpelier, let contract building 25,000 ft. state road, Marlboro Twp., gravel, to P. Ricci, Rutland. Noted July 3.

★**R. I., Providence**—City let contract paving Delaine St., Union Pocasset and Kinsley Aves., asphalt, to Narragansett Impvt. Co., Providence. About $70,000. Noted July 10.

New York—F. S. Greene, State Highway Comr., Albany, received bids [illegible] improving roads in following counties:

(a) Warren Co., 4.59 mi. Chestertown-Hague Rd. No. 1501, Part 4; also completing roads in following counties: (b) Franklin Co., 11.41 mi. Santa Clara-Lake Meacham Rd. No. 1251, (c 1) Genesee Co., 2.62 mi. Alabama-Batavia Rd. No. 1402-A, Part 2, (c 2) 7.94 mi. Alabama-Batavia Rd. No. 1403, Part 1, (d) Rensselaer Co., 2.97 mi. Melrose-Schaghticoke Hill Rd. No. 1425-A, (e) St. Lawrence Co., 11.16 mi. De Peyster-Ogdensburg Rd. No. 1388, (f) Wyoming Co., 4.73 mi. Varysburg-Warsaw Rd. No. 1349-A, Part 2, from F. W. Hamilton, Rochester.

(a) $141,249; E. J. Anderson & Co., Albany, (a) $141, 822; M. J. Bruce & Co., Tupper Lake, (b) $121,239; T. F. Murray, Leroy, (c 1) $51,355; A. J. Rockwood, 51 Rutgers St., Rochester, (c 1) $52,608, (c 2) $109,021; Roco Co., Inc., Rochester, (c 1) $54,718; Wing & Munger, Hedley, (c 2) $103,964; M. H. Ripton, Livingston Bldg., Rochester, (c 2) $104,325; J. V. Jova, Inc., Roseton, (d) $31,506; H. A. Schaupp, Inc., Albany, (d) $32,272; Spellman-Oliver Co., Lake St., Chautauqua, (e) $95,363; A. A. Howard, Fairport, (f) $48,816; Greenfield Constr. Co., 89 Main St. Hornell, (f) $52,161; F. J. Mumm Contg. Co., Inc., 176 Best St., Buffalo, (f) $54,030. Noted July 17.

New York—State Highway Comn., Albany, received bids July 29, improving roads in following counties:

(a) Chautauqua Co., 4.64 mi. Brocton-Fredenia Rd. No. 8008.

(b) Jefferson Co., 6.78 mi. Gunn Corners-Fishers Landing Rd. No. 1397, Part 2; also completing roads in following counties: (c) Allegany Co., 9.07 mi. Belfast-Caneadea Rd. No. 5615,

(d) Cattaraugus Co., 6.98 mi. Hinsdale-Franklinville Rd. No. 5543, Part 1.

(e1) Cayuga Co., 3.89 mi. Port Byron-Weedsport Rd. No. 5609, (e 2) 4.39 mi. Montezuma-Port Byron Rd. No. 5610.

(f 1) Duchess Co., 6.97 mi. Amenia-Pine Plains Rd. No. 5580, Part 1, (f 2) 6.79 mi. Amenia-Pine Plains Rd. No. 5628, Part 2.

(g) Franklin Co., 1.99 mi. Malone Village, Main and Elm Sts., Rd. No. 5602.

(h 1) Jefferson Co., 14.05 mi. Cape Vincent-Clayton Rd. No. 1255, (h 2) 7.76 mi. Gunn Corners-Fishers Landing Rd. No. 1256, Part 1.

(i) Livingston Co., 7.69 mi. Caledonia-Mt. Morris Rd. No. 5593-A, Part 1.

(j 1) Monroe Co., 2.92 mi. Chili-Coldwater Rd. No. 1390, (j 2) 7.93 mi. Sweden-Walker Rd. No. 1391, (j 3) 5.27 mi. Scottsville-Rush Rd. No. 1393-A, (j 4) 6.33 mi. Churchville-Adams Basin Rd. No. 1468, (j 5) 4.56 mi. Scottsville-West Henrietta Rd. No. 1499-A,

(k) Oneida Co., 5.34 mi. Utica-Poland Rd. No. 5597, Part 3,

(l) Onondaga Co., 3.06 mi. Syracuse-Bridgeport Rd. No. 1072, Part 2.

(m) Orange Co., 4.03 mi. Cornwall-West Point (Storm King Highway) Rd. No. 5498, Parts 1 and 2.

(n) Schuyler Co., 6.03 mi. Townsend-Watkins Rd. No. 5557,

(o) Wayne Co., 2.25 mi. Wolcott-Savannah Rd. No. 1058-A, Part 3, from E. J. Bailey, Brocton, (a) $131,555.

H. P. Burgard Co., 1968 Fillmore Ave., Buffalo, (b) $127,710, (h 1) $181,598, (h 2) $121,576;

McCarthy & Rock, Winthrop, (b) $132,739;

W. J. Fox, Oramel, (c) $180,622;

J. A. Hughes, Wellman Bldg., Jamestown, (c) $196,452;

F. J. Foote Co., Inc., Nunda, (c) $221,426, (i) $185,291, (j 3) $195,100;

L. H. Gipp, 787 Richmond Ave., Buffalo, (d) $137,588;

Fure & Fote, Olean, (d) $147,110;

Mosier & Summers, Inc., 1266 Summers St., Buffalo, (d) $151,294;

Kennedy Contg. Co., Albany, (e 1) $28,712;

Knox, Shaw & Drake, Auburn, (e 1) $29,403;

Scott Bros., Arlington Blk., Rome, (e 2) $153,343;

Cayuga Co., Auburn, (e 2) $155,573;

C. D. Schlemmer, Islip, (e 2) $154,493;

S. B. Van Wagenen, Inc., Rondout, (f 1) $108,280;

R. J. Garafano, Amenia, (f 1) $114,729;

De Graff & Hogeboom, Inc., Kingston, (f 1) $115,855;

S. Beskin, Beacon, (f 2) $150,008;

A. D. Bridges' Sons, Inc., Hazardsville, Conn., (f 2) $153,714;

J. A. Jova, Inc., Roseton, (f 2) $157,396;

A. F. McConville, Ogdensburg, (g) $27,428;

Streets and Roads (Continued)

F. H. Rhody, Albion, (h 1) $179,686; Dale Eng. Co., Mann Bldg., Buffalo, (h 2) $122,908, (k) $174,771; Atlanta Constr. Co., Atlanta, (i) $186,022;

H. C. Schroeder, Mercantile Bldg., Rochester, (j) $189,067, (j 2) $166,356, (j 3) $192,368;

I. M. Ludington Sons, Inc., Powers Bldg., Rochester, (j 1) $36,239;

Greenfield Constr. Co., 89 Main St., Hornell, (j 1) $35,317, (j 2) $164,852;

G. W. Chambers, Powers Bldg., Rochester, (j 1) $36,323;

A. J. Rockwood, 51 Rutgers St., Rochester, (j 2) $171,853;

R. T. Ford Co., 206 South Ave., Rochester, (j 3) $191,957;

J. Petrossi Co., Livingston Bldg., Rochester, (j 3) $194,180, (j 5) $128,061;

Ribstein-Holter Co., Inc., 16 State St., Rochester, (j 4) $71,786;

Wing & Munger, Holley, (j 4) $73,589, (j 5) $131,202;

Morison & Quinn, Inc., Cutler Bldg., Rochester, (c2) $155,269, (j 3) $194,888, (j 5) $130,242;

P. H. Murray, Cutler Bldg., Rochester, (k) $169,095;

C. H. Van Auken, Fulton Chain, (k) $178,841;

L. D. Sullivan, Co., Inc., 17 Scott St., Utica, (l) $59,526;

F. W. Hamilton, Rochester, (l) $65,689;

J. L. Hayes Constr. Co., Inc., Yonkers, (m) $453,584;

Rosoff Eng. Co., 15 Park Row, New York City, (m) $159,346;

W. L. Frost, Watkins, (n) $89,245;

Hendrickson-McCabe Constr. Co., Inc., Syracuse, (o) $39,226;

F. H. Wells, Savannah, (o) $39,194. Noted July 17.

★**N. Y., New York** — F. L. Dowling, pres. Manhattan Boro., let contract regulating and repaving with granite block on concrete foundation Broome and Bleecker Sts to Regan Tower Co., $27,151 and $9134 respectively, Walker St., to M. I. Sachs, $4065. Noted Aug. 7.

★**N. Y., Rochester**—City let contract paving Weisner Rd., bituminous macadam and Ryan Alley, asphalt, to T. Holahan, 164 Lewis St., $18,145 and $7301 respectively, Fairview Ave., asphalt, to Ribstein-Holter Co., 16 State St., $22,464. Noted June 12.

N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., received bids Aug. 6 building concrete curb with steel guard rail, etc., (a) Tompkins Ave., (b) Richmond Terrace, (c) Manor Rd., from J. Curran, Stapleton, (a) $2797, (c) $59,437; Kraemer-Leedecke, 114 East 56th St., New York City, (a) $2951, (b) $1338; J. E. Donovan, Port Richmond, (a) $3844, (b) $1683; J. Johnson Sons, Port Richmond, (a) $4131, (b) $1543; Uvalde Asphalt Co., 1 Bway., New York City, (c) $66,825; Sicilian Asphalt Paving Co., 41 Park Row, New York City, $70,870. Noted June 31.

★**N. Y., Watertown**—Bd. Pub. Wks. let contract paving Hewitt and Walden Sts., concrete, to Reed & Colwell, Watertown, $25,313. Noted June 19.

★**N. Y., Watertown**—City will pave Pearl and South Massey Sts., concrete. About $8206 and $17,323 respectively. Work will be done by day labor. Noted June 19.

New Jersey — State Highway Comn., Broad St. Bank Bldg., Trenton, received bids building 2090 sq.yd. State Highway Route No. 4, Navesink River Sect., Monmouth Co., from Miles & Dennston, Asbury Park, $19,956; C. H. Winans Co., Elizabeth, $22,663; L. J. Sieling, 150 Nassau St., New York City, $22,771.

★**N. J., Mt. Holly**—Bd. Freeholders Burlington Co. let contract improving road from Florence Sta. to State Highway Route No. 2, to Model Concrete Co., Medford, $17,283. Noted June 24.

Pennsylvania — State Highway Dept., Harrisburg, received bids building roads in counties as follows:

Beaver Co., 6788 ft. 1 course rein.-con., Pulaski and Daugherty Twps., from S. B. Markley, 299 Adams St., Rochester, $65,038; E. W. Falck, Leetsdale, $66,159; J. H. DeCarpentier & Sons, 521 Falls Ave., Youngstown, O., $66,692.

Bedford Co., 2414 ft. 1 course rein.-con., Woodbury Boro., Detwiler & Detwiler, New Enterprise, $22,239.

Cambria Co., 6634 ft. 1 course rein.-con. and Hillside vitr. brick, Route No. 276, Croyle Twp., Croyle Township Supervs. of Cambria Co., R. D. No. 2, Wilmore, $127,217; Portage Concrete Constr. Co., Portage, $141,120.

Clearfield Co., 17,977 ft. 1 course rein.-con., Route No. 59, Lawrence and Pike Twps., Dowler & Anderson, Clearfield, $195,585; J. Boyce, Clearfield, $199,498; 8118 ft. 1 course rein.-con. and Hillside vitr. brick, Route No. 59, Brady Twp., G. Minns, Jr., 601 First St., DuBois, $68,179; G. I. Thompson & Co., Clearfield, $73,302; 4333 ft. 1 course rein.-con., Route No. 57, Chester Hill Boro., G. I. Thompson & Co., Clearfield, $42,887; Gifford & Pritchard, Phillipsburg, $47,672; 13,027 ft. 1 course rein.-con. and Hillside vitr. brick, Route No. 60 Sandy Twp., Dale Eng. Co., Inc., 22 Mann Bldg., Utica, N. Y., $136,991.

Erie Co., 18,421 ft. bituminous surface concrete on concrete base or 1 course rein.-con., Northeast Twp., Gridd Constr. Co., 1117 State St., Erie, $137,612.

Fayette Co., 5950 ft. 1 course rein.-con. and Hillside vitr. brick, Route No. 247, Dunbar Twp., G. S. White Co., Jenkins Arcade, Pittsburgh, $65,403; R. D. Thomas & Co., 6 Boundary St., Pittsburgh, $65,659.

Indiana Co., 8188 ft. 1 course rein.-con., Route No. 54-63-67, Indiana Boro., M. Bennett & Sons, Indiana, $73,959; McCrady Bros. Co., 308 6th St., Braddock, $84,031.

Lackawanna Co., 7538 ft. bituminous surface on concrete foundation, Route No. 168, Elmhurst Boro., H. B. Sproul Constr. Co., Inc., 218 Adams Ave., Scranton, $56,507; Holt Lumber Co., 61 North Main St., Carbondale, $59,435; O'Brien, Rees & Ruthven, 212 Carter Bldg., Scranton, $63,109.

Lycoming Co., 24,201 ft. bituminous surface course on concrete foundation or 1 course rein.-con., Route No. 240-19, Muncy Creek and Wolf Twps., Muncy and Hughesville Boro., Winston & Co., 240 Fair St., Kingston, N. Y., $198,042; 14,284 ft. bituminous surface on concrete foundation or 1 course rein.-con., Route No. 23, Piatt & Porter Twps. and Jersey Shore Boro., W. J. Gephart, 2033 5th St., Pittsburgh, $126,272; Winston & Co., 240 Fair St., Kingston, N. Y., $162,862.

Northampton Co., 29,182 ft. 1 course rein.-con., Route No. 166, Plainfield Twp., E. P. Arbogast, 10 North 7th St., Stroudsburg, $217,812; J. McGraw Co., 1010 Commercial Trust Bldg., Phila., $223,773; R. T. and C. D. Stewart Contg. Co., 14 South 3rd St., Easton, $230,311.

Perry & Dauphin Co., 41,753 ft. bituminous surface on concrete foundation or 1 course rein.-con., Route No. 195, Buffalo and North Buffalo Boros, and Watts and Reed Twps., Winston & Co., 240 Fair St., Kingston, N. Y., $439,676.

Schuylkill Co., 22,435 ft. 1 course rein.-con., Route No. 161, New Castle, Blythe, Ryan and West Mahoning Twps., E. J. Corcoran, Plains, $325,120.

Snyder and Juniata Co., 25,737 ft. bituminous surface on concrete foundation or 1 course rein.-con., Route No. 195-229, Susquehanna and Chapman Twps., R. C. Fiss, Shamokin Dam, $267,972.

Venango Co., 14,000 ft. 1 course rein.-con., Route No. 91, Sugar Creek Twp., C. F. Hamilton, Inc., 423 Trust Company Bldg., Franklin, $131,698; Ritchey, Cramer & Snow, Franklin, $132,553.

Westmoreland Co., 32,047 ft. 1 course rein.-con., Route No. 68, Derry Twp., McCrady Bros. Co., 308 6th St., Braddock, $389,580; Booth & Flinn, Ltd., 1942 Forbes St., Pittsburgh, $394,336.

★**Pa., Gallitzen**—Boro Council let contract building 6000 sq.yd. brick paving, 2000 cu.yd. excav. and 175 lin.ft. stone curbing, to Loomis & King, Central Trust Bldg., Altoona. About $36,000. Noted June 17.

★**Pa., Greensburg**—Comrs. Westmoreland Co let contract building Sect. 1 Harrison City Export Rd., 2.7 mi. long, to R. H. Cunningham, Turtle Creek. About $137,240.

Pa., Pittsburgh—Comrs. Allegheny Co. received bids rebuilding (a) 15,100 ft. Ardmore Blvd., 24 ft. wide with (1) concrete, (2) asphalt, (3) brick, involving 40,550 sq.yd. rein.-con. or 36,600 sq.yd. asphaltic concrete, 40,900 sq.yd. concrete foundation and integral raised curb, or 36,600 sq.yd. brick block, 41,350 sq.yd. concrete foundation and integral raised curb, 15,100 ft. 6 in. vitr. pipe underdrain, 1450 cu.yd. rein.-con. retaining wall and 110,000 reinforcing rods; (b) 15,840 ft. Imperial and Clinton Rd., Finley Twp., 16 ft. wide, 28,500 sq.yd. asphaltic concrete, 4000 tons ballast and screenings, 28,500 sq.yd. scarified and trued surface, 32,000 ft. concrete shoulder, 16,000 ft 6 in. vitr. tile drain and 3000 cu.yd. excav.; (c) widening 10,500 ft. Verona Rd. from Frankstown to Saltsburg Rds., 24 ft. wide, 16,350 sq.yd. asphaltic concrete, 16,100 sq.yd. concrete foundation shoulder and integral curb, 8000 ft. 6 in. vitr. pipe underdrain and 3500 cu.yd. excav., from Booth & Flynn, 1942 Forbes St., (a1) $288,567, (a2) $235,975, (a3) $279,045, (b) $126,188; T. Cronin, South 17th and Muriel Sts., (a2) $245,130, (a3) $286,810, (b) $115,330, (c) $79,832; T. McNally, Oliver Bldg., (a1) $274,561, (a3) $329,404; Columbus Asphalt & Paving Co., Pittsburgh, (b) $106,481, (c) $86,173; M. O'Herron & Co., South 1st and McKean Sts., (c) $64,792. Noted July 24.

★**Maryland**—State Rds. Comn., 601 Garrett Bldg., Baltimore, let contract resurfacing 0.75 mi. Liberty Rd. from Gwynn Oak Jct. to Baltimore city limits, macadam. Contr. BC-31, Baltimore Co., to D. C. McAleer, 405 Phoenix Bldg., Baltimore, $9918. Noted July 24.

★**Va., Charlotte**—City let contract (a) paving 1300 ft. West Main St., concrete, (b) building concrete sidewalk and curb, (c) laying concrete foundation for car tracks, to Lightnor & Co., Richmond, (a) $3.15 per sq.yd., (b) $2.10 per sq.yd., (c) $12.00 per cu.yd. Noted July 31.

★**W. Va., Huntington**—Comrs. Cabell Co. rejected bids received building 1 mi. Huntington-Hamlin Rd., 16 ft. wide, involving 9300 sq.yd. vitr. brick paving on 4 in. cement concrete base. About $35,000. Work will be done by day labor. Noted July 17.

W. Va., Lewisburg—Comrs. Greenbrier Co. received bids grading and draining 6.5 mi. Ft. Springs Rd., 20 ft. wide, from Blodgett-Carola Co., Newark, O., $43,230; Hedrick Constr. Co., Clarksburg, $63,000. Pipe to be furnished by county. Noted July 24.

W. Va., Wayne—Comrs. Wayne Co. received bids grading and draining 3.2 mi. Armilda-Echo Rd., 26 ft. wide, from Shipe & Wentz, Barboursville, $41,103; Hoad Constr. Co., Maysville, $45,131; Clay & Doyle, Huntington, $45,523. Noted July 31.

★**N. C., Fayetteville**—City let contract to Amer. Constr. Co., Moultrie, Ga., paving 5240 ft. Person St., 40 ft. wide, involving 24,000 sq.yd. 3 in. asphalt on 5 in. concrete base, 400 lin.ft. granite curbing, 1000 sq.yd. concrete gutter, and 3000 sq.yd. concrete sidewalks. About $81,000. Noted July 17.

★**N. C., Winston-Salem**—Comrs. Forsyth Co. will grade, drain and pave 1.87 mi. road with concrete. Work will be done by day labor. About $63,000.

★**Ala., Birmingham**—Bd. Revenue, Jefferson Co., let contract to P. Wallace, Tuscaloosa, cherting 4 mi. road from Alliance School to Marine, cost $10,400; 4 mi. Oak Grove Rd., $14,508; also grading 2 mi. Gilmore and Alliance Rds., $8600; 7 mi. Oak Grove and Lock 17 Rds., $52,120; 5¼ mi. Taylors Ferry Rd., $49,095; J and I Parsons, bessemer, grading and cherting 3¼ mi. McCalla and Buckville Rds., $25,489; Acton & Self, Trussville, cherting 7 mi. Gintown, Flat Top and Bessie Rds., $26,500; to W. H. and J. B. Rylant, McCalla, grading 1 mi. road, Edgewater to Mack's Chapel, $8045.

★**Ala., Birmingham**—City let contract paving 2240 sq.yd. 46th St. from Clairmont to 8th Aves., involving 2240 sq.yd. asphalt and 3500 cu.yd. grading, to H. N. Bowdry, Empire Bldg., $11,413.

★**Ky., Paris**—City let contract to R. W. Burke Co., Realty Bldg., Center and Jefferson Sts., Louisville, paving 1600 ft. Main St. from 10th to 14th Sts., 30 ft. wide, involving 5800 sq.yd. concrete, 3000 lin.ft. concrete curbing and 1140 cu.yd. earth excav., cost $12,300, also 4000 ft., Pleasant St., 30 ft. wide, 14,500 sq.yd. concrete, 7500 lin.ft. concrete curbing, and 2850 cu.yd. earth excav., $30,700.

★**Ohio**—State Highway Comn., Columbus, let contracts to Andrews Paving Co., Hamilton, grading, building bridges and culverts, and paving 4.05 mi. Sect "B," Oxford-Millville Rd., sheet asphalt, cost $150,331; 3.66 mi. Sect. "C-2," Oxford-Millville Rd., sheet asphalt, $137,976; building gravel shoulders and paving 1.36 mi. Sect. "A," Hamilton-Middletown Rd., bituminous concrete, $22,827; all in Butler Co. Noted July 10.

★**Ohio**—State Highway Comn., Columbus, let contract grading, building bridges and culverts and paving 3.21 mi. Sect. E. Hicksville-Defiance Rd., rein.-con., Defiance Co., to Turritan & Figley, Evansport, $84,489; 2.15 mi. Sect. P, Unity-Salem Rd., brick, Mahoning and Columbiana Counties, to J. D. Paxson, Salem, $93,510; 4.28 mi. Sects. G and A-1, Upper Sandusky-Tiffin Rd., brick, to Modern Constr. Co., Fremont, $163,842; 1.16 mi. Sect. A, Warren-Burton Rd., bituminous macadam, to Gray Bros., Youngstown, $30,423. Noted July 3.

Ohio—State Highway Comn., Columbus, received bids Aug. 5, resurfacing Sects. "J", "G-1" and "G-2," Cleveland-Wooster Rd., bituminous concrete, Cuyahoga Co., from W. B. McAllister Co., 2163 East 31st St., Cleveland, cost $156,268; Highway Constr. Co., Elyria, $159,498. Noted July 24.

Streets and Roads (Continued)

★**Ohio**—State Highway Comm., Columbus, let contracts building roads in following counties:

Columbiana and Mahoning Counties, paving Sect. J, Salem-Alliance Rd., brick to J. D. Paxson, Salem, $146,406.

Crawford Co., Sects. M-1 and M-2 Bucyrus-Galion Rd., brick, L. R. McMichael, Bucyrus, $67,239 and $110,313 respectively.

Darke Co., Sects. B and C, Dayton-Greenville Rd., plain concerete, Dull & Dull, Arcanum, $86,541 and $33,782; Sect. F, Celina-Greenville Rd., plain concrete, Alexander Bros., North Star, $150,707; Sect. A, Versailles-Western Rd., brick on concrete base, Manix Bros., Greenville, $168,-654.

Fayette Co., Sect. A, Columbus-Washington C. H. Rd., bituminous macadam, P. D. Van Camp, Camp Dennison, $106,420.

Hamilton Co., Sect. D, Cincinnati-Louisville Rd., Warrenite, Henkel & Sullivan, 105 Bell Blk., Cincinnati, $355,520; Sect. A, Harrison Pike, bitoslag, Migent & Hine, Harrison, $154,664; Sect. B, Harrison Pike, bitoslag, Scully Bros., Cincinnati, $222,416.

Knox Co., Sect. P, Columbus-Wooster Rd., plain concrete, Highway Constr. Co., Elyria, $189,989.

Montgomery Co., Sect. M, Dayton-Indianapolis Rd., rein.-con., C. Hoolihan, Dayton, $91,474.

Pickaway Co., Sect. B, Circleville-Adelphi Rd., gravel, O. M. Junk, Chillicothe, $18,888.

Shelby Co., Sect B-2, Piqua-St. Mary's Rd., rein.-con., Putnam & Shindledecker, Van Wert, $27,404; Sect. A-2, Urbana-Sidney Rd., bituminous macadam, Stone & Hile, Lima, $26,875.

Trumbull Co., Sect. N-1, Youngstown-Conneaut Rd., bituminous macadam Seiple-Wolfe Co., Youngstown, $39,983; Sect. B, Warren-Burton Rd., bituminous macadam, Russell & Russell, West Austintown, $107,-442.

Wood Co., Sect. B-1, Toledo-Elmore Rd., bituminous concrete, Johnston, Van Wagoner & Johnson, Tontogany, $67,660; Sects. F-1 and F-2, Findlay-Bowling Green Rd., rein.-con., C. L. Straw, Paulding, $90,601 and $101,206. Noted July 24.

O., Columbus—G. A. Borden, dir. pub. serv., received bids grading, draining, laying water mains and paving with (1) brick, (2) asphalt, (3) sheet asphalt, No. 1 process, (4) sheet asphalt, No. 2 process, (5) sheet asphalt No. 3 process, (a) Grant Ave. from 5th to 11th Aves., (b) Monroe Ave. from Broad to Long Sts., (c) Stanley Ave. from Heyl Ave to 22nd St., (d) St. Clair Ave. from Mt. Vernon Ave. to south end of viaduct, (e) 3rd St. from Livingston to Reinhard Aves., from R. J. Dienst, 2515 West Broad St., (a 1) $38,529, (c 1) $17,-473; A. G. Pugh, Columbus, (a 1) $40,651, (a-2) $40,201, (b 2) $10,528, (d 3) $35,732, (d 4) $39,920, (d 5) $41,277, (e 2) $59,365; Franklin Asphalt Paving Co., Columbus, (a 2) $38,858, (c 2) $17,023, (d 3) $37,959, (e 2) $54,514; Cleveland Trinidad Paving Co., The Arcade, Cleveland, (a2) $39,629, (c2) $17,457, (d 3)$37,245, (d 4) $34,715, (d 5) $41,798; Andrews Paving Co., Hamilton, (e 2) $63,972. Noted July 31.

★**O., Hamilton**—City let contracts to Andrews Paving Co., Hamilton, paving with sheet asphalt and building cement curbs and gutters on Middletown Pike from Milliken St. to corporation line, $22,827; Milliken St. from D to G Sts., $17,718; Belle Ave. from Laurel and Benninghofen Aves., $66,549.

★**Indiana**—State Highway Comn., Indianapolis, let contract building 8.85 mi. road between Hancock and Marion Co. lines, to M. Kirkpatrick, Greenfield, cost $230,063; 5.76 mi. road from Broad Ripple to Carmel, Marion and Hamilton counties, to J. E. McNamarra, Indianapolis, $205,974; 7.35 mi. road from Seeley to Brazil, Vigo and Clay Counties, to Carpenter Constr. Co., Terra Haute, $265,777; 6.22 mi. road from Seymour to Bartholomen Co. line, Jackson Co., to Davis Constr. Co., Seymour, $210,-378; 8.39 mi. road from Plymouth to St. Joseph Co. line, Marshall Co., to Becker, Bayart Co., Plymouth, $274,520; 8.12 mi. road from Stilesville to Mt. Meridian, Hendricks and Putnam Counties, to F. Cunningham, Indianapolis, $339,105; 3.5 mi. road from Osceola to Elkhart, St. Joseph and Elkhart Counties, to Northern Constr. Co., Elkhart, $117,088; 6.35 mi. road, Elkhart Co., to K. Riley Co., Goshen, $248,-874; all concrete.

★**Ind., Rushville**—City let contract paving Sexsquaus and 3rd Sts., 40 ft. wide, involving 10,800 sq.yd. Brazil brick block on 5 in. concrete base, to G. G. Miller, Lebanon. About $48,600.

★**Ind., Rushville**—Rush Co. let contract building 3 mi. New Salem Pike, 36 ft. wide, 6 in. concrete, to G. G. Miller, Lebanon, $35,396.

★**Mich., Detroit**—Bd. Pub. Wks. let contract to Detroit Paving Co., 20 McGraw Bldg., paving with asphaltic concrete on 6 in. concrete foundation, Amherst curbing set in concrete, St. Clair Ave., $31,326; Chapin Ave., $4440; Clairpointe Ave., $39,-548; Garland Ave., $56,202; Granger Ave., $7712; Kirby Ave., $852; Louis Ave., $2993; Springle Ave., $21,439. Noted Aug. 7.

★**Mich., Detroit**—City let contract paving following alleys with 1 course concrete, No. 1037, to T. E. Currie, 20 McGraw Bldg., $7,295; Nos. 1038, 1039, to Lennane & McIlvenna, 1205 Book Bldg., $5671 and $5043 respectively; No. 1040, to R. J. Powelson, 1577 Iroquois Ave., $3842; Nos. 1041, 1042, 1043, 1044, 1045, to Otis Cement Constr. Co., Hammond Bldg., $2063, $5287, $3389, $3220 and $2936 respectively.

Mich., Detroit—City received bids paving following alleys with 1 course concrete, (a) No. 1046, (b) No. 1047, (c) No. 1048, (d) No .1049, (e) No. 1050, (f) No. 1051, (g) No. 1052, (h) No. 1053, (i) No. 1054, (j) No. 1055, (k) No. 1056, (l) No. 1057, from R. J. Powelson Co., 1577 Iriquois Ave., (a) $3869, (c) $1665, (d) $4908, (e) $2567, (g) $5013, (h) $2272, (i) $1423, (j) $3117, (k) $3901, (l) $5555; J. Porath, 34 McGraw Bldg., (a) $3817, (b) $1908, (c) $1451, (d) $4916, (f) $1312, (h) $2119, (i) $1300, (j) $2926, (k) $3755; Otis Cement Constr. Co., 806 Hammond Bldg., (a) $3855, (c) $1784, (d) $4040, (e) $3567, (g) $4863, (h) $2401, (i) $1445, (l) $5555; Talbot Co., 400 Penobscot Bldg., (b) $1964, (e) $3501, (f) $1334, (g) $4742, (l) $5792; Lennane & McIlvenna, 1205 Book Bldg., (b) $1955, (j) $3052, (k) $3880; E. J. Meredith Co., 145 Harper Ave., (f) $1316. Noted Aug. 7.

★**Ill., Chicago**—Bd. Local Impvts. let contracts to Standard Paving Co., 29 South La Salle St., paving Carrol Ave., from St. Johns Court to Ashland Ave., $6487, West Congress St. from Talman Ave. to Washtenaw St., $2700; to White Paving Co., 17 North La Salle St., Fairoaks St. from Hazel St. to Bway., $7084; to R. F. Conway Co., 133 West Washington St., Hutchinson St. from Lockwood to Long Aves., $6962, Keystone Ave. from Lawrence Ave. to Argyle St., $16,299; to Amer. Asphalt Paving Co., 133 West Washington St., Potomac Ave. from Springfield to Crawford Aves., $6003; to Smith & Brown Co., 128 North La Salle St., North St. Louis Ave. from Carmen to Foster Aves., $11,033; to Central Paving Co., 179 West Washington St., West 42nd St. from Marshfield to Ashland Aves and Marshfield Ave. from West 42nd to West 43rd Sts., $25,308. Noted Aug. 7.

Ill., Chicago—Bd. Local Impvts. received bids Aug. 1, paving (a) Alley between Montrose, Cullom, Ashland and Paulina Aves.,

(b) Alley between Addison St., Cornelia Ave., Halsted St. and Reta Ave.

(c) Alley between Sunnyside, Galt, Clarendon and Hazel Aves.,

(d) Alley between Granville, Hood, Bway. and Lakewood Aves.,

(e) Alley between Menominee and Eugenie Sts., Cleveland Ave. and Mohawk St.,

(f) Alley between Sunnyside, Galt and Hazel Aves. and Sheridan Rd.,

(g) Alley between East 63rd and East 64th Sts., Ingleside and Drexel Aves.,

(h) Alley between East 63rd and East 64th Sts., Langley and Champlain Aves.,

(i) Alley between West 65th Pl., West 66th St., Stewart and Normal Aves.

(j) Alley between Harrison and Flournoy Sts., Spaulding and Homan Aves.,

(k) Alley between Van Buren, Congress, Washtenaw Sts. and California Ave.,

(l) Alley between Blackhawk and Division Sts., Holt and Dickson Aves.,

(m) Alley between Fillmore and 12th Sts., Francisco Ave. and Richmond St.,

(n) Alley between Huron, Erie and Leavitt Sts. and Oakley Blvd.,

(o) Alley between Chicago Ave., Superior St., Hoyne Ave. and Leavitt St.

(p) Alley between Washington Blvd., Madison, Ada and Sheldon Sts.,

(q) Alley between Fillmore and 12th St., Sacramento Blvd. and Richmond St.,

(r) 1st alley west of Racine Ave. from Congress to Harrison Sts.,

(s) Alley between West 72nd and West 73rd Sts., Union and Emerald Aves.,

(t) Alley between Grenshaw and 12th Sts., Kedzie and Spaulding Aves.

(u) Alley between Harrison and Flournoy Sts., Homan and St. Louis Aves.,

(v) Clyde Ave. from East 73rd to East 75th Sts.,

(w) Clyde Ave. from East 92nd to East 83rd Sts.,

(x) Shields Ave. from 35th St. to point 631 ft. south.

(y) East 72nd St., from South Shore Dr. to East 71st St., East 71st St. from South Shore Dr. to point 122 ft. ...

(z) South Hoyne Ave. from West 107th to West 111th Sts., 108th Pl. from Hoyne Ave. to point 160 ft. east, West 110th St. from Longwood Dr. to Hoyne Ave., from Central Paving Co., 179 West Washington St., (a) $7304, (b) $3764, (c) $1066, (d) $3951, (e) $3424, (f) $3566, (g) $3261, (h) $3429, (j) $5412, (l) $16,074, (m) $5970, (o) $6188, (p) $8843, (q) $3158, (s) $3128, (u) $5412, (x) $14,905;

J. Dillon & Co., 179 West Washington St., (a) $7334, (e) $3469, (f) $2594, (g) $3283, (j) $5340, (k) $9480, (l) $16,150, (m) $6171, (n) $5959, (o) $6156, (p) $8827, (q) $3158, (r) $3127, (s) $3128, (t) $3654, (u) $5374;

P. J. O'Brien, 29 South La Salle St., (a) $7340, (b) $3788, (e) $4089, (f) $3712, (j) $5381, (k) $9368, (l) $16,148, (m) $6206, (n) $5937, (o) $6141, (p) $8737, (r) $3179, (t) $3676, (u) $5412;

J. A. Ross & Co., 4561 Armitage Ave., (b) 3786, (q) $3192;

R. R. Anderson & Co., 1841 West Lake St., (c) $4092, (d) $3946, (f) $3570;

Contg. & Material Co., 10 South La Salle St., (d) $3976, (e) $3476, (g) $3231, (h) $3661, (i) $3389, (k) $9463, (m) $6228, (r) $3172, (s) $3100, (t) $3654, (x) $14,-842;

Melloy Constr. Co., 111 West Washington St., (h) $3598, (i) $3366;

Amer. Asphalt Paving Co., 133 West Washington St., (v) $15,137, (w) $7735, (y) $10,754, (z) $49,913;

R. F. Conway & Co., 133 West Washington St., (v) $15,756, (w) $7805, (y) $11,-880, (z) $51,378;

F. P. McCormick Co., 133 West Washington St., (v) $15,143; (w) $7799, (y) $10,-767, (z) $50,618. Noted July 31.

Wisconsin — State Highway Comn., Superior, received bids improving Gordon-Minong Rd., Douglas and Washburn Counties, Federal Aid Project No. 99, involving (a) 41,913 cu.yd. earth excav., (b) 468 cu.yd. borrow excav., (c) 26,499 cu.yd. screened gravel surfacing, (d) 35,459 cu.yd. sand-clay gravel surfacing, etc., from Ord Co., 313 Providence Bldg., Duluth, Minn., (a) $0.49 cu.yd., (b) $0.49, (c) $0.56, (d) $0.54, total cost, $59,795; Thiede & Wilkinson, Hawthorne, (a) $0.475, (b) $0.475, (c) $0.85, (d) $0.40, total cost $60,027; Swanson & Johnson, Oliver, (a) $0.55, (b) $0.54, (c) $0.60, (d) $0.44, total cost, $61,265; Hurley-Ashland Rd., Ashland Co., Federal Aid Project No. 45, (a) 38,-434 cu.yd. earth excav., (b) 4789 cu.yd borrow excav., (c) 411 cu.yd. concrete culverts, from J. Gorham, Butternut, (a) $0.60, (b) $0.70, (c) $16, total cost, $36,350. Noted July 31.

★**Minn., Litchfield**—Village let contract grading, paving and curbing various streets, to Genl. Contg. Co., Plymouth Bldg., Minneapolis, $150,405. Noted July 10.

★**Minn., Zumbrota**—Village rejected bids received Aug. 1 paving 3 blocks with concrete, 60 ft. wide. About $14,000. Work will be done by day labor. Noted July 24.

★**Kan., Leavenworth**—City let contract repaving Delaware St., No. 2 asphaltic concrete, to Land Constr. Co., Ballinger Bldg., St. Joseph, Mo. About $70,000. Noted July 24.

★**Kan., Seneca**—City let contract paving Main St., to J. Stanton, 6th and Kiowha Sts., Leavenworth, involving 14,521 sq.yd vitr. brick pavement, 6000 ft. combined curbing and guttering, 7800 ft. 10-33 in storm sewers, 19 manholes and 61 catchbasins. Noted July 17.

★**Neb., Fremont**—Comrs. Dodge Co. let contract paving 6 mi. Fremont-Ames Rd., 18 ft. wide, to H. Murphy Constr. Co., 204-6 Karbach Bldg., Omaha, $178,853. Noted July 17.

★**Neb., Lincoln**—City let contract to Abel Constr. Co., 318-19 Terminal Bldg., paving Dist. No. 423, $10,848, Dist. No. 427 $19,043; to Burke Cochrane Constr. Co., 522 1st National Bank Bldg., Dist. No. 418 $5384, Dist. No. 433, $16,423 and Dist. No. 431, $6781.

★**Neb., Tecumseh**—City let contract paving Main St., to Intermenlain Bridge & Constr. Co., Tecumseh, $96,149. Noted July 17.

★**N. D., Fargo**—City let contracts paving with concrete 3600 sq.yd. 8th St. from Front St. to First Ave., etc., to W. M. Kennedy, Fargo, $14,600; 10th St. between Front St. and 5th Ave., and 5th St. from 8th to 10th Aves., to J. Kennedy, Fargo, $21,000.

★**Montana** — State Highway Comm., Helena, let contract gravel surfacing 3.8 mi. Forsyth-Ashland Rd., Rosebud Co., to C. W. Ball, Forsyth, $19,568. Noted July 24.

Streets and Roads (Continued)

★**Mo., Kansas City**—City let contract paving Grand St., asphalt, to E. D. Tyner Constr. Co., Kansas City, at $42,755.

★**Mo., St. Joseph**—Buchanan Co. let contract paving 3.7 mi. Saxon Rd., 18 ft. wide, asphalt macadam, to Land & Skilbred Constr. Co., Ballinger Bldg., $43,385.

★**Ark., Fayetteville**—Bd. Comrs. Washington Co. let contract building 52 mi. limestone macadam road in Rd. Dist. No. 2, 18 ft. wide, to Crane Constr. Co., Springfield. About $385,000. Noted June 5.

★**Okla., Tulsa**—City let contract paving, grading, curbing, guttering and draining 69,000 yd. various streets, to F. P. McCormick, c/o Parker-Washington Constr. Co., Reeder Bldg., $333,429.

★**Idaho, Bonners Ferry** — City let contract paving 4050 sq.yd. Main, Bonner and Kootenai Sts., to J. C. Broad, Jamieson Bldg., Spokane, Wash., $27,465.

★**Idaho, Lewiston**—City Council let contract grading, curbing and building concrete sidewalks on D St. extension, to F. A. Dole, Lewiston, $11,331.

Idaho, St. Marie—City received bids building 116,409 sq.ft. cement sidewalks, 5-12 ft. wide, from W. L. Geist, St. Marie, $26,920; Two Miracle Co., 437 Ford Bldg., Great Falls, Mont., $28,229. Noted July 31.

Arizona—State Highway Comn., Phoenix, received bids improving 2 mi. Prescott-Jerome Highway, from Miller Constr. Co., San Francisco, $1.34 cu.yd. excav., total $102,403; H. Balbaith, Jerome, $1.55 per cu.yd.; Twohy Bros., North West Bank Bldg., Portland, Ore., $1.89 per cu.yd. Work involves 58,200 cu.yd. excav., 2600 cu.yd. dry rubble masonry in retaining walls, etc.

★**Washington** — State Highway Comn., Olympia, will grade and gravel 7 mi. Olympic Highway west from Olympia. About $59,996. Work will be done by day labor. Noted July 31.

★**Wash., Seattle**—Bd. Pub. Wks. let contract improving 30th Ave. S., et al. involving 95,000 lin.ft. wooden curbing and guttering, 7990 lin.ft. concrete sidewalk, 22,200 cu.yd. earth excav. and 1555 ft. 8 in. concrete sewer pipe, to Bishop Constr. Co., Seattle, $55,119.

★**Wash., Vancouver**—City let contract paving with bitulithic and building concrete sidewalks on 22nd St. from Reserve to Main Sts., to Warren Constr. Co., Journal Bldg., Portland, Ore., $29,617. Noted July 10.

Ore., Portland—City received bids July 30, improving (a) East 47th St. from East Glisan St. to connection with pavement at railroad south and regrade project, (b) East 16th St. from Spokane to Marion Aves., (c) Umatilla Ave. from East 23rd to East 19th Sts., (d) East 27th and Klickitat Sts., (e) East 9th St. from East Burnside to East Ash Sts., (f) East 60th St. from East Glisan to Oregon Sts., (g) Division St. from East 10th St. to Grand Ave., (h) Girard St. from Newman to Haven Sts., (i) Marion Ave. and East 16th St., (j) East Madison St. from East 1st to East Water Sts., (k) Tacoma Ave. from East 17th to East 21st Sts., (l) 56th Ave. S. E. from 77th St. S. E. to 72nd St., S. E., (m) East Morrison St from East 32nd to East 13th Sts., (n) East 11th St. from Alberta to Going Sts., (o) Olin St. from Lombard St. to Willamette Blvd., (1) asphaltic concrete, (2) asphaltic concrete No. 1 in roadway, (3) concrete No. 1 in roadway, (4) asphaltic concrete redress, (5) concrete No. 1 in track, (6) concrete in roadway, (7) asphaltic concrete repairs, (8) asphaltic concrete No. 1 redress, (9) macadam in roadway, from Warren Constr. Co., Journal Bldg., (a1) $1.42 per yd., total cost, $15,234, (b2) $1.43 per sq.yd., $18,747, (c2) $1.43 per yd., $9808, (d2) $1.37 per yd., $25,040, (e4) $1.39 per sq.yd., $2117, (f5) $2.00 per sq.yd., (f1) $1.53 per sq.yd., $4115, (g5) $2.10 per sq.yd., (g2) $1.28 per sq.yd., $16,132, (h1) $1.63 per sq.yd., $10,022, (j8) $1.39 per yd., (m2) $1.30 per sq.yd., $6477, (n2) $1.40 per sq.yd., $6660; J. Keating, (c3) $2.30 per sq.yd., $9001, (k9) $5.50 per sq.yd., $10,008, (o) $3161; S. Simonsen, (d3) $1.98 per sq. yd., $24,200, (f7) $4036, (l) $6491, (o) $7892; Municipal Paving Plant, (e4) $1.60 per sq.yd., $1757, (j4) $1.00 per sq.yd., $1009; Cochran Bros., (g3) $2.05 per sq.yd. (g5) $2.05 per sq.yd., $17,296, (h6) $2.25 per sq.yd., $9575, (m3) $2.10 per yd., $5041, (n3) $2.10 per sq.yd., $6477. Noted Aug. 7.

★**Cal., Martinez**—Comrs. Contra Costa Co. let contract grading and paving with 4 in. concrete 6.84 mi. Div. 11, west from Pittsburg, 18 ft. wide, to O'Brien Bros., Martinez, $13.75 per cu.yd. concrete paving and $0.70 per cu.yd. excav.; 2 mi. Div. 12, west from Pittsburg, 18 ft. wide, Blanchard, Crocker & Howell, Oakland, $13.49 per cu. yd. concrete paving and $0.93 per cu.yd. excav.

★**Cal., Oakland**—City let contract curbing, guttering, paving and building sidewalks on 2000 ft. Fruitvale and Whittle Aves., to Bates & Borland, Bway. and 12th St., $35,166. Noted Aug. 7.

Cal., Oakland—City received bids improving (a) 87th Ave., (b) 37th Ave., from Bates & Borland, Bway. and 12th St., (a) $13,223, (b) $18,318; P. A. Belser, 625 Market St., San Francisco, (a) $14,304; Hutchinson Co., 444 17th St., (a) $15,124, (b) $17,632; Oakland Paving Co., 5000 Bway., (b) $18,455. Noted July 31.

★**Ont., Owen Sound**—D. H. Fleming, city engr., let contract paving 16 blocks, 6th, 8th and 10th Sts., 20, 24 and 28 ft. wide, bitulithic to Warren Paving Co., McKinnon Bldg., Toronto, $75,000; curbing, guttering and catch basins, to Curran Clement Co., Orillia, $15,000. Noted July 10.

Railways

PROPOSED WORK

Maryland—See "Industrial Works" under Baltimore.

Maryland—Maryland, Delaware & Virginia R.R., and Philadelphia, Baltimore & Washington R.R., having survey made for connecting lines near Queen Anne. Cost between $75 000 and $100,000. Address E. Lee, Broad St. Sta., Phil., Federal mgr.

Florida—St. Augustine Pub. Ser. Corp. plans to build electric car line from Jacksonville to St. Augustine. T. R. Osmond, St. Augustine, promoter.

Missouri—City of St. Louis plans to build electric railway belt line to connect Municipal and McKinley Bridges. Appropriation of $1,920,000 has been made and plans prepared by J. A. Hook, dir. and C. S. Butts, engr., both of Bd. Pub. Utilities, for laying 63 mi. track of United Ry. Co., extending Natural Bridge line 1¾ mi. to Pine Lawn, thence to Florrisant Ave., north, also extending Tower Grove line 1½ mi. to Lindenwood, Taylor line 3¾ mi. south to Gravois Ave., Lee line 2 mi. west and shortening Cherokee line between 18th St., 12th St. and Geyer Ave. Plans also include connection of Terminal R.R. with Wiggins Ferry and Mill Creek Valley yards and elimination of surface grade of Missouri Pacific R.R. tracks on Poplar St. Another appropriation of $1,300,000 will be made for construction of elevated railway tracks and approach to Municipal Free Bridge at southern terminus, for which plans have been drawn. This work will include construction of 4400 ft. double-track elevated structure and 4000 ft. double surface track track on Gratiot St., elevated structure to be in form of "Y," tracks starting at southern side Chouteau Ave. and levee connecting with elevated line between Cedar and Plum Sts., extending west to curve on 2nd St. to connect with elevated tracks of Terminal R. R., then continuing to 7th and Gratiot Sts. to meet approach of Municipal Free Bridge. On north side elevated structure will start at Cedar Plum and 2nd Sts., curving to ground on north east line to Clark and Levee Sts., to connect with tracks of Missouri Pacific R.R. and St. Louis Transfer R.R., Mill Creek Valley yards and Municipal Free Bridge and by way of bridge to East St. Louis, Ill., yards and tracks of company.

California—California Southern R.R., Investment Bldg., Los Angeles, plans to build 10 mi. steam railroad from Blythe south, also build concrete siphon bridges to carry irrigation ditches under railway. Work will probably be done by day labor. C. H. Beggs, genl. mgr.

Excavation and Dredging

PROPOSED WORK

O., Kenton—Excavation—Upper Scioto Drainage & Conservancy Dist., Kenton, rejected bids received Aug. 6, improving channel and building levee along Scioto River through here. About $400,000. Noted July 3.

Mich., Lansing—Drainage—See "Streets & Roads."

Minn., Bemidji—Drainage—Comrs. Beltrami Co. having preliminary survey made draining Red Lake Basin and Red Lake River from outlet to Red River of North at Grand Forks. About $779,300. S. D. Snyder, Bemidji, engr.

Minn., Warren—Ditches—Comrs. Marshall Co. having plans prepared by J. A. Lindsey, engr., Warren, building 4 main drainage ditches, total length 150 mi.

N. M., Ft. Summer—Irrigation—City voted $400,000 bonds to build new concrete dam and gravity canal to irrigate 9000 acres in Pecos Valley. Engineer not selected.

Utah, Delta—Drainage — Bd. Supervs. Millard Co., D. D. No. 1, soon let contract furnishing materials and labor building drainage system. Work involves 361,000 cu.yd. earth excav., 688,000 lin.ft. 6-20 in. drain tile and 688,000 lin.ft. trenching. Caldwell & Richards, Vermont Bldg., Salt Lake City, archts.

Utah, Hinckley—Drainage—Bd. Supervs. Millard Co., D. D. No. 1, soon lets contract furnishing materials and labor for building drainage system. Work involves 72,000 cu.yd. excav., 345,940 lin.ft. trenching and backfilling, and 345,940 lin.ft. 6-20 in. tile. Caldwell & Richards, Vermont Bld., Salt Lake City, archts.

Wash., Seattle—Drainage— Bd. King Co. Comrs., Seattle, established Algona D. D. 2 mi. long, 1½ mi. wide containing 1,473.4 acres. J. J. Humes, co. engr. preparing plans and will call for bids before Sept 1. Plans include 9½ mi. ditches. Pierce Co. will join project at county line and carry water into Stuck River. About $49,751.

Ore., Hillsboro—Ditch—Bd. Supervs. D. D. No. 7, Washington Co., soon lets contract constructing drainage ditches and 2 timber bridges involving 60,000 cu.yd. earth excav. About $10,000. Baar & Cunningham, Spalding Bldg., Portland, consult. engrs.

Cal., Huntington Beach—Irrigation—Property owners on Huntington Beach mesa organizing irrigation district to build small dams in Santa Ana River, install pumps to lift water 75 ft. and build pipe lines to irrigate about 2500 acres. G. F. Fowler, member of com.

Cal., McArthur — Irrigation — J. W. Forgeus, Sharon Bldg., San Francisco, having estimate made by F. H. Tibbetts, engr., Alaska-Commercial Bldg., San Francisco, for irrigation system in Fall River Valley, Shasta Co.

Cal., Modesto—Canal—P. Jones, engr., Modesto, recommended bond issue of $250,000 to enlarge and reline main canal with concrete and building drainage system, for Modesto Irrigation Dist.

Cal., Oxnard—Ditches—Oxnard D. D. election Aug. 26 to vote on $200,000 bonds to build 20 mi. ditches, main ditch to be 10-12 ft. deep, 10 ft. wide at bottom and 34 ft. wide at top. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, engrs.

Man., Winnipeg—Drainage—G. A. Grierson, minister pub. wks., soon lets contract constructing 42 mi. drainage ditches, in D. D. No. 2. Work involves 314,000 cu.yd. excav.

BIDS DESIRED

N. Y., Brooklyn—Dredging—Until Aug. 20, by E. Riegelmann, boro. pres., dredging Gowanus Canal from its head to Hamilton Ave. and Newtown Creek Canal at and in canal and basin included within boundaries of Johnson and Varick Aves. and in Stagg St. basin.

Fla., Sanford—Ditches—Until Sept. 2, by Comrs. Seminole Co., building 9.18 mi. ditches, involving 58,660 cu.yd. excav. F. F. Williams, Sanford, engr. Noted June 19.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., Phila.**—Dredging—Comrs. Fairmount Park let concract dredging high spots in Schuylkill River near Fairmount Park, to R. Patton, 601 North 34th St. About $25,000. Noted July 31.

Ariz., Phœnix—Drainage—City received bids building tile drainage system, from C. Fisher, 845 North 6th Ave., $124,712; Doyle Bros., Phœnix, $132,850; G. S. Benson & Sons, Stimson Bldg., Los Angeles, $136,625. Noted July 17.

★**Ont., Kingston**—Excavation—Provincial Government, Toronto, let contract excavating at Rouge Hill on Provincial Highway, involving about 60,000 cu.yd. dry excav., to Dufferin Constr. Co., Toronto, $75 per cu. yd.

★**Ont., Metcalfe**—Drainage—Municipality let contract building extension drain in Grey Creek, near here, to D. B. Cameron, Berwick. Work involves 39,131 cu.yd. earth excav., $0.30 per cu.yd., 133 cu.yd. rock excav., $3.25 per cu.yd., 15 acres clearing, $50 per acre, grubbing, $0.60 per lin.ft. Total cost, $18,000.

Industrial Works

PROPOSED WORK

Mass., Williamstown—J. S. Boyd Co. soon lets contract building addition to weaving and finishing mills. About $75,000. E. F. Saxton, Tremont Bldg., Boston, consult. engr. and archt.

Mass., Williamstown—J. S. Boyd Co. having plans prepared by E. F. Saxton, consult. engr. and archt., Tremont Bldg., Boston, for 500 loom spinning and weaving mill, cost $500,000; also for developing water power.

Conn., Bridgeport—Bridgeport Mattress Co., 25 East Washington Ave., plans to build 4 story, 50 x 100 ft., brick and mill construction factory, concrete foundation, on East Washington Ave. About $40,000. F. A. Cooper, 1024 Main St., engr.

Conn., Hartford—Royal Typewriter Co., Inc., 150 New Park Ave., plans to build brick and concrete addition to plant. About $175,000. Private plans.

Conn., Mystic—Packer Tar Soap Co., Lincoln Ave., plans to build 1 story, storage plant, 1 story factory and 25 x 30 ft. power house, brick and concrete, concrete flooring and foundation. About $40,000. Bilderbeck & Langdon, Inc., Barrows Bldg., New London, engrs.

Conn., New Haven—New England Iron Wks., 96 Commerce St., soon receives bids building 1 story, 69 x 150 ft., brick and steel plant and 20 x 35 ft. brick office, concrete flooring and foundation, on Dixwell Ave. About $40,000. Private plans. Noted Feb. 20.

Conn., New Haven—Texas Oil Co., 17 Battery Pl., New York City, soon receives bids building 1 and 2 story, 38 x 100 ft. storage and office and 1 story, 40 x 56 ft. garage, rein.-con., rein.-con. foundation, on Forbes Ave. here. About $35,000. Private plan.

N. Y., Albany—Kelley-Dennin Co. plans to build 1 story, 150 x 150 ft., brick, concrete and steel garage, machine shop and salesroom, with 2 wings, on Bway. About $150,000. Address A. E. Lew, vice pres.

N. Y., Brooklyn—Thompson & Mellema, consult. engrs., 640 Bway., New York City, soon lets contract furnishing material and labor building concrete work for 2 story, 75 x 100 ft., rein.-con. garage, on Pearl St., for J. B. Silman, 1511 Emmons Ave.

N. Y., New York—M. Hausle, archt. and engr., 3307 3rd Ave., receives bids about Sept. 1, building 6 story, 100 x 120 ft. ice plant, brick and steel, rein.-con. flooring, concrete foundation, on Bedford Park Blvd., for N. Reinhardt, 972 Brook Ave. About $150,000.

N. Y., New York—J. O'Leary, 227 East 57th St., had plans prepared by J. M. Felson, archt. and engr., 1133 Bway., for 4 story, 55 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 225-227 East 67th St. About $50,000.

N. Y., New York—Port Morris Holding Co., c/o Winters & Co., 137th St. and Southern Blvd., having plans prepared by Ballinger & Perrott, archts. and engrs., 47 West 34th St., for 6 story, 375 x 382 x 316 x 390 ft. plans factory, rein-con. and steel, rein.-con. flooring, concrete foundation, on 141st St. and Walton Ave. About $500,000.

N. Y., New York—L. A. Sheinart, archt., 194 Bowery, receives bids about Aug. 25, building 2 story brick and steel garage, rein.-con. flooring, brick foundation, at 361-365 South St., for J. Kennedy, 378 Front St. About $60,000.

N. Y., Seneca Falls—Wescott Valve Co., Erie, Pa., plans to build 1 story brick factory, on Green and Spring Sts. About $100,000. Address P. R. Westcott, Seneca Falls, secy.

N. Y., Syracuse—H. H. Franklin Co., 302 South Geddes St., plans to build 60 x 140 ft. automobile plant brick, brick foundation. About $250,000. S. Firestone, Granite Bldg., Rochester, archt. and engr.

N. Y., Syracuse—Great Northern Warehouse, Inc., plans to build 7 story, 150 x 200 ft. rein.-con. warehouse, rein.-con. flooring, concrete foundation, on West Fayette St. About $400,000. Thompson & Binger, Gurney Bldg., archts. and engrs.

N. Y., Syracuse—Morrell-Soule Co., North Franklin and Plum Sts., had plans prepared by Thompson & Binger, engrs., Gurney Bldg., for 61 x 90 ft., cold storage plant, concrete. Cost between $80,000 and $90,000. Engineers will supervise construction.

N. J., Belleville—Overman Cushion Tire Co., Cortlandt and Rutgers Sts., plans to build 2 story, 50 x 138 ft. assembling room addition, brick. About $30,000. E. Grant, 397 Washington Ave., Newark, archt.

N. J., Newark—M. Hertz Leather Co., Oliver St., having plans prepared by J. A. Piggott, archts. and engrs., 9 Clinton St., for 3 story, 42 x 200 ft., rein.-con., brick and mill construction addition to factory. About $150,000.

N. J., Trenton—Standard Oil Co., New York Ave., plans to build repair shops, storage buildings and offices at its plant, here. About $200,000. W. M. Todd, 837 East State St., agt.

Pa., Phila.—Comery Schwartz Motor Car Co., 128 North Broad St., having plans prepared by C. E. Oelschlager, archt., 1615 Walnut St., building 6 story, 210 x 440 ft., concrete and brick auto service and truck station at 24 Market St., through to Chestnut St.

Md. Baltimore—F. A. Furst, pres., Furst-Clark Constr. Co., 1515 Fidelity Bldg., and other capitalists and financiers, plan to develop 200 acre tract from Spring Gardens to Fort McHenry, Baltimore Southwest Channel Harbor, for system of docks and warehouses. Plans include 200 x 1200 ft., concrete, covered pier, cost $825,000; 2 warehouses, $1,824 000; approaches, $400,000; bulkhead, $100,000; pier equipment, $40,000; roads, $40,000; railway trackage, $75,000; heating plant, $175,000; cranes, $86,000; locomotives, $25,000. Full development provides for 26 warehouses and eight 200 x 1200 ft. covered piers; several of the buildings to be used for manufacturing purposes. F. W. Kesselbaum, c/o Baltimore Dry Dock & Ship Building Co., Locust Point, engr.

N. C., Bessemer City—Huss Mfg. Co. plans to build factory, also 150 x 400 ft. warehouse and 100 x 200 ft. waste plant. About $500,000. Architect not selected.

Ala., Birmingham—Cruse-Crawford Mfg. Co., Ave. B and 22nd St., having plans prepared by W. T. Warren, archt., Empire Bldg., for 1 and 3 story, brick or tile garage. About $100,000.

O., Alliance—City election Sept. 8 to vote on $525,000 bonds to build gas plant.

O., Carthage (Cincinnati P. O.)—Lunkenheimer Co., Beekman, Tremont, Knox, Lawnway and Waverly Aves., Cincinnati, acquired site in Carthage comprising about 70 acres directly on Toledo Division of Baltimore & Ohio Southwestern RR., and having plans prepared for complete new plant. Buildings will be of 1, 2 and 3 story types, steel and concrete construction. Plans also include recreation center for employees, including assembly hall, club rooms, base ball grounds, tennis courts, swimming pools, dining room, etc., on tract of land lying directly opposite from main plant. Cost $2,000,000.

O., Cleveland—Christian Schwartzenberg & Gaede, archts., 1900 Euclid Ave., soon lets contract building 6 story, 107 x 125 ft., rein.-con., steel and brick factory, on West 3rd St. and Lakeside Ave., for Crown Land Co., East 22nd St. and St. Clair Ave. About $200,000. Noted Aug. 7.

O., Cleveland—Schwartz, Forney & Hexter Co., West 6th St. and Lakeside Ave., plans to build 5 story, 100 x 150 ft., rein.-con., steel and brick factory, on East 30th St. and Superior Ave. About $250,000. Architect not selected.

O., Newark—W. S. Weiant & Son nad plans prepared by Bodenstein & Surmann, archts. and engrs., 405 2nd Natl. Bank Bldg., Cincinnati, for 2 and 3 story, 49 x 66 ft. power plant, concrete foundation.

O., Newton Falls — Made-Right Rubber & Tire Co. preparing plans for plant, to include 4 story, 60 x 240 ft., main building, 40 x 80 ft. boiler house and 75 x 75 ft. office building. About $225,000. Private plans.

Mich., Detroit—R. Flinn, archt., 435 Woodward Ave., preparing plans building 3 story, 70 x 110 ft., brick, steel and mill construction factory, on Riopelle and Winder St. About $35,000. Owner's name withheld.

Mich., Detroit—C. E. Rogers, 34 Goldsmith St., having plans prepared by Varney & Varney, archts., 307 Palmer Bldg., building 1 story, 100 x 214 ft., brick and steel factory, concrete foundation, on West Fort St. About $80,000.

Mich., Ecorse—Edgeworth Varnish Co., Phila., has acquired site on High St. and Michigan Central R.R., here, and plans to build 100 x 300 ft. factory. Architect not selected.

Ill., Chicago—Gardner & Lindberg, engrs., 38 South Dearborn St., soon receives bids building 10 story rein.-con. cold storage warehouse, concrete foundation, on Fulton and Morgan Sts., for Fulton Market Cold Storage Co., c/o engrs. About $4,000,000.

Kan., Wichita—Sinclair Refining Co., Wichita, and 111 West Washington St., Chicago, plans to build oil distributing plant here. Plans include 3 story, fireproof office building and several other structures. About $150,000. C. K. Birdsall, c/o owner, archt.

Neb., Alliance—Lowry & Henry plan to build 1 story, 100 x 140 ft. rein.-con., brick and timber garage, rein.-con. flooring, concrete foundation. About $70,000. H. W. J. Edbrooke, Tabor Opera House Bldg., Denver, Colo., archt.

Mo., Florrisant—Florrisant Serv. Co., Bellefontaine Rd., receives bids in January, constructing 2 story, 80 x 100 ft. freight storage building and 1 story, 60 x 100 ft. office, brick, concrete and steel, and 3 story, 100 x 100 ft. rein.-con., steel and brick garage and repair shop, rein.-con. flooring, rock foundation, on Bellefontaine Rd. Cost $60,000 and $100,000 respectively.

Mo., Jefferson City—W. C. Schmidt plans to build fireproof garage. About $25,000.

Mo., St. Louis—City plans to build two 3 story, 200 x 400 ft. and one 120 x 200 ft. rein.-con., steel and brick warehouses, rein.-con. flooring, rock foundation, on North Market St. and Mississippi River. About $300,000. C. E. Smith, City Hall, engr.

Mo., St. Louis—W. H. Faust, 524 South Spring St., Los Angeles, plans to build garbage reduction plant. About $400,000.

Mo., St. Louis—Miller Lightning Rod Co., plans to build 2 story, 100 x 300 ft. factory on 3rd and Geyer Sts. Cost to exceed $50,000. E. G. Miller, secy. Architect not selected.

Tex., San Antonio—Bear Rubber Mills, Ltd., plans to build 1 story, 300 x 360 ft. mill on Frio City Rd. About $200,000. Gulick, Hoff & Ries, Frost Bldg., engrs.

Okla., Hobart—City plans election soon to vote on $135,000 bonds to build electric light plant. V. V. Long & Co., 605 W. D. Capitol Hill, Oklahoma, engrs.

Okla., Tulsa—F. E. Gates, 614 South Independence St., Sapulpa, plans to build 2 story, 100 x 140 ft. factory on Elgin Ave. and Brody St., here. About $150,000. Architect and engineer not selected.

Idaho, Boise—Sherman Automobile Co. plans to build 1 story, 75 x 125 ft., brick, tile and steel garage, to include showroom, restrooms, stockrooms, etc. G. O. Goodwin, mgr. Tourtellotte & Hummel, Overland Bldg., archts.

Idaho, Idaho Falls—R. F. Bicknell, 141 Warm Springs Ave., Boise, plans to build 2 or 3 story, concrete, brick and frame plant here. About $1,000,000. Architect not selected.

Utah, Manti—City having plans prepared by F. G. McGonagle, engr. Salt Lake City, for electric light plant. About $25,000.

Utah, Ogden—Midwest Dye & Chemical Co. plans to build factory, here, to manufacture salt, caustic soda, dyes, etc. About $100,000. L. T. Cannon, Salt Lake City, pres.

Wash., Centralia—Kane Shock Absorber Co., plans to build 1 story, 40 x 180 ft. machine shop and 60 x 60 ft. foundry, brick veneer, on Fords Praire. About $60,000.

Wash., Spokane—Pacific Coast Biscuit Co., plans to build additions to plant, including fuel oil tank, on Pacific Ave. and Bernard St. About $60,000.

Wash., Walla Walla—Walla Walla Tool & Wrench Co. plans to build 2 or 3 story, concrete and steel factory. About $200,000. Private plans.

Ore., Bend—J. Moore plans to build 2nd unit of 1 story concrete and frame soda ash and potash plant, on Summer Lake, 10,000 ton capacity. About $190,000.

Ore., Marshfield—Adelsperger & Conrad Co. purchased 26 acre Reynolds development site and plans to build 100,000 ft. daily capacity sawmill. About $150,000.

Ore., Portland—Log Cabin Baking Co., 265 Ivy St., having plans prepared for remodeling and building 1 story, 65 x 90 ft. addition to bakery and 3 story, 16 x 52 ft. addition to storage flour bin, concrete, concrete foundation, on Vancouver St. Cost including conveyors and freight elevators, $75,000. H. T. Rittman, mgr.

Industrial Works (Continued)

Ore., St. Helens—St. Helens Lumber Co. plans to increase capacity of lumber mill to 200,000 ft. daily by rebuilding loading shed and building addition and installing new bandsaw, edger, sorting tables, etc. About $50,000.

Cal., El Centro—Imperial Valley Milk Producers Assn. receives bids in September building 2 story, 150 x 300 ft. creamery on Main St. About $150,000. Noted May 8.

Cal., Los Angeles—Crane Co., 321 East 3rd St., purchased site and plans to build 5 story, 84 x 200 ft., concrete and brick addition to warehouse. Architect not selected.

Cal., Los Angeles—S. H. Van Nuys, Van Nuys Bldg., having plans prepared by Morgan, Walls & Morgan, archts., 1124 Van Nuys Bldg., for 4 story, 100 x 155 ft., rein.-con. garage and loft building, rein.-con flooring, concrete foundation on 11th and Flower Sts. W. P. Herbert, lessee.

Cal., Oakland—Pacific Wool Corp. had plans prepared by J. M. Haenke, archt., c/o Palace Hotel, San Francisco, for factory to consist of 3 story, 100 x 300 ft. warehouse, 3 story, 78 x 217 ft. scouring plant, 2 story, 78 x 217 ft. spinning shop, 1 story, 45 x 60 ft. power plant, 1 story, 35 x 90 ft. office and 30 x 560 ft. wharf, all rein.-con., with steel sash. About $800,000.

BIDS DESIRED

Mass., Worcester—Until Aug. 16, by S. H. Pitcher Co., archts., 44 Front St., building 3 story, 50 x 150 ft. brick garage, rein.-con. flooring, concrete foundation, on Austin St., for Worcester Paper Box Co., 7 Houchin Ave. About $60,000. Noted July 31.

Pa., Phila.—Until Aug 20, by W. F. Koelle & Co., archt., 26th and Oxford Sts., building 7 story, 49 x 186 ft., ice cream factory, rein.-con. and brick, on 8th and Cumberland Sts., for Breyer Ice Cream Co., 8th and Cumberland Sts.

Pa., Wilkes-Barre—Until Aug. 22, by G. F. Schroeder, archt., 14 Wietenkorn Bldg., building 2 story, 152 x 154 ft. steel and brick garage, rein.-con. flooring, rock foundation, on Northampton St., for D. S. Williams, 259 East Northampton St. About $60,000.

O., Cleveland—G. S. Rider, archt. and engr., Century Bldg., receiving bids building 10 story, 89 x 105 ft., rein.-con., steel and brick warehouse, at 5442 Blanche Ave., for Cleveland Worsted Mills Co., 6300 Bway Ave. About $400,000. Noted July 31.

O., Cleveland—G. S. Rider, engrs., Century Bldg., receiving bids building 2 story, 97 x 167 ft., rein.-con., steel and brick addition to factory, for Jordon Motor Car Co., 1057 East 152nd St. About $75,000. Noted July 31.

Mich., Detroit—Mildner & Eisen, archts., 924 Hammond Bldg., receiving bids building 1 and 2 story, 75 x 130 ft. brick and steel mill construction machine shop on 4th and Porter Sts., for Mutual Electric & Machine Co., 232 Fort St.

Mich., Grand Rapids—P. Lindhout, archt., Grand Rapids, receiving bids building 2 story, 75 by 125 ft. rein. con., steel and brick factory here, rein. con. flooring, concrete foundation, for Globe Truck & Vise Co., Grand Rapids. About $50,000.

Ill., Chicago—S. M. Eichberg, archt., 64 West Randolph St., receiving bids building 4 story, 100 x 330 ft. rein.-con. and brick warehouse, rein.-con. flooring, concrete foundation, on Kingsbury St. at Chicago River, for S. Birkenstein & Sons, Inc., 377 West Ontario St. About $300,000. Noted July 17.

Ill., Chicago—W. G. Uffendell, archt., 39 South State St., receiving bids for 5 story, 100 x 135 ft. rein.-con. factory, on Orleans St. and Institute Pl. for Dallas Brass & Copper Co., 225 North Jefferson St. About $200,000.

Minn., Minneapolis—Until Aug. 20, by State Bd. Control, Capitol, St. Paul, building 6 story, 120 x 180 ft., rein.-con. and brick storehouse, on University St. About $125,000. C. H. Johnson, Capital Life Bldg., St. Paul, archt.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Northampton** — Nonotuck Silk Co., Florence, let contract building 3 story, 56 x 120 ft. rein.-con. addition to factory, on Bridge St. here, to W. F Kearns Co., 240 Albany St., Cambridgeport. About $36,000.

★**Mass., Pittsfield**—Berkshire Woolen Co. let contract building 1 story, 50 x 200 ft., brick addition to mill, concrete foundation, to J. R. Hampson & Co. About $25,000.

★**R. I., Providence**—M. Hickey, 246 Thurbers Ave., let contract building 1 story, 50 x 200 ft. brick and mill construction garage and service station, on Thurbers Ave. and Eddy St., to J. A. Hickey, Thurbers Ave. About $30,000. Noted July 3.

★**R. I., Providence**—Rhode Island School of Design, Waterman St., let contract building 4 story, 58 x 82 ft. jewelry plant, brick and concrete, concrete flooring and foundation, on Bene St., to C. B. Maguire Co., 1206 Turks Head Bldg. About $125,000. Noted June 19 under "Buildings."

★**R. I., Providence**—U. S. Gutta Percha Co., 12 Dudley St., let contract building 5 story, 50 x 100 ft. brick and steel addition to plant, concrete foundation, on Dudley St. to Williams & Merchant, Inc., 86 Weybosset St. About $80,000.

★**Conn., Bridgeport**—Cornwall & Patterson Mfg. Co., 1730 State St., let contract building 1 story, 145 x 160 ft. brick addition to factory, concrete flooring, concrete and stone foundation, to Westcott & Mapes, Inc., 207 Orange St., New Haven. About $50,000.

★**Conn., Elmwood** (Hartford P. O.)—Jewell Belting Co., 55 Trumbull St., Hartford, let contract building 5 story, 66 x 370 ft. brick and mill construction factory, here, brick foundation, to F. J. Meagher, 100 Caya Ave., West Hartford.

★**Conn., Forrestville**—Peck & Young Mfg. Co., Stratford Ave., let contract building 1 story, 60 x 200 ft. factory, 1 story, 40 x 80 ft. garage and 1 story 25 x 35 ft. boiler house, brick, concrete foundation, to J. H. Grozier Co., 756 Main St., Hartford. About $50,000.

★**Conn., Norwalk**—New England Auto Accessories Corp., 50 South Main St., let contract building 80 x 150 ft. brick and concrete auto plant, concrete foundation, on West Ave. and Berkeley St., to Norwalk Bldg. Co., 229 Main St. About $65,000.

★**Conn., South Norwalk**—Nash Eng. Co., Wilson Rd., will build 3 story brick and mill construction addition to factory, rock foundation. About $30,000. Work will be done by day labor. Noted July 24.

★**Conn., Windsor Locks**—Ford, Buck & Sheldon, Inc., engrs., 60 Prospect St., Hartford, let contract to Bent-Bartlett Co., 43 Ann St., Hartford, building 84 x 135 ft., rein.-con. addition to factory and 84 x 100 ft. cotton plant, here, for J. R. Montgomery Co. About $80,000. Noted Aug. 7.

★**N. Y., Brooklyn**—J. Sklar, 133 Floyd St., will build 1 story, 100 x 150 ft., brick and steel garage, concrete foundation, on Vernon and Throop Aves. About $35,000. Work will be done by day labor.

★**N. Y., Carthage**—Natl. Paper Products Co., 1789 Montgomery St., let contract building brick addition to plant, to W. O. Adner, Franklin St. About $40,000. Noted Feb. 6.

★**N. Y., Long Island City**—Ballinger & Perrot, archts. and engrs., 17th and Arch Sts., Phila., let contract to Turner Constr. Co., 244 Madison Ave., New York City, for 5 and 6 story, 200 x 600 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, at Degnal Terminal, here, for Amer. Chicle Co., 19 West 44th St., New York City. About $2,000,000. Noted July 24.

★**N. Y., New York**—J. S. Hannon, 445 West 16th St., let contract building 2 story, 72 x 95 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 433-437 West 16th St., to I. A. Hoppers Sons Inc., 15 East 40th St. About $50,000. Noted July 17.

★**N. Y., New York**—J. Hoffman Brewing Co., 211 East 55th St., will convert 3 and 4 story, brick and steel brewing plant at 215 East 54th St., into garage, rein.-con. flooring. About $50,000. Work will be done by day labor. Noted July 3.

★**N. Y., New York**—A. Lobo, 1133 Bway., let contract building 2 story, 45 x 70 ft., brick and steel warehouse, rein.-con. flooring, concrete foundation, at 401-403 Canal St., to Gregorio & Co., 860 East 228th St. About $30,000. Noted July 31.

★**N. Y., Syracuse**—Syracuse Overland Co., 245 West Water St., let general contract building 3 story, 100 x 100 ft. brick garage, rein.-con. flooring, concrete foundation, at 405-9 Grake St., to E. A. Howard, Bostable Bldg., steel work, to Syracuse Eng. Co., Rosenbloom Blk. About $45,000.

★**N. Y., Utica**—C. A. Durr Packing Co., Ft. Schuyler St., let contract building 2 story brick addition to plant, to Thompson & Binger, Inc., Gurney Bldg., Syracuse. About $75,000.

★**N. J., Camden**—Standard Oil Co., 26 Bway., New York City, let contract building 4 story, rein.-con. and steel storage plant, rein.-con. flooring, concrete foundation, to White Eng. Co., 95 Madison Ave., New York City. About $600,000.

★**N. J., Jersey City**—Amer. Groceries Co., West Side Ave. and Carbon Pl., let contract building 4 story, 100 x 100 ft., mill construction warehouse, to Irvington Lumber & Door Co., 738 Broad St., Newark. About $150,000. Noted July 17.

★**N. J., Matawan**—A. P. Munning, c/o Lockwood, Greene & Co., archts., 101 Park Ave., New York City, let contract building 1 story, 42 x 115 ft., and 42 x 152 ft., rein.-con. and steel factories, concrete foundation, to H. V. Patten, Matawan. About $35,000. Noted June 26.

★**N. J., Passaic**—Genl. Silk Importing Co., c/o Lockwood, Greene & Co., archts., 101 Park Ave., New York City, let contract building rein.-con., brick and steel factory, covering 100,000 sq.ft. rein.-con. floor space, concrete foundation, to J. W. Ferguson, Paterson. About $200,000. Noted July 24.

★**N. J., Red Bank**—Standard Oil Co., 26 Pway., New York City, let contract building 2 story, rein.-con. and steel garage, rein.-con. flooring, concrete foundation, to White Eng. Co., 95 Madison Ave., New York City. About $100,000, cost plus percentage basis.

★**N. J., Trenton**—Standard Oil Co., 26 Bway., New York City, let contract building 3 story, rein.-con. and steel storage plant, rein.-con. flooring, concrete foundation, to White Eng. Co., 95 Madison Ave., New York City. About $300,000, cost plus percentage basis.

★**Pa., Cheswick**—Duquesne Light Co., 435 6th St., Pittsburgh, let contract building power house, here, (one unit of 60,000 k.w. is to be instal ed initially, ultimate capacity 300,000 k.w.), to D. P. Robinson & Co., Inc., 61 Bway., New York City.

★**Pa., Harrisburg**—Packard Motor Car Co., 317 North Broad St., let contract building 1 story, 140 x 180 ft. concrete and brick service station and sales room, to Central Constr. Corp., Commonwealth Bldg., Harrisburg. About $70,000.

★**Pa., Phila.**—Phila. Paper Co., 231 South Front St., let contract building 1 story, 55 x 192 ft., concrete and brick factory, on Nixon and Fountain Sts., to Brown Constr Co., 4600 Main St. About $25,000.

★**Pa., Pittsburgh**—Pittsburgh Gage & Supply Co., 30th and Liberty Sts., let contract building 6 story, 98 x 130 ft. brick addition to factory, rein.-con. flooring, concrete foundation, to J. W. Cowper & Sons Co., 60 Oliver Bldg. About $200,000.

★**Del., Newark**—Continental Fibre Co. let contract building 2 story, 60 x 240 ft. rein.-con. and steel factory, to Austin Co., Bulletin Bldg., Phila. About $56,000.

★**Del., Yorklyn**—Natl. Fibre Insulation Co let contract building 2 story, 60 x 140 ft., rein.-con. factory, to Austin Co., Bulletin Bldg., Phila. About $40,000.

★**Md., Baltimore** — Fenway Apartment Co., St. Paul and 34th Sts., let contract building 2 story, 54 x 108 ft., concrete and steel garage, cement flooring, concrete foundation, to Price Constr. Co., 210 Maryland Trust Bldg. About $55,000. Noted Aug. 7.

★**Md., Ellicott City**—C. A. Gambrill Mfg. Co., 109 Commerce St., Baltimore, let contract building 7 story, 50 x 128 ft., rein.-con. and brick mill and warehouse, rein.-con. flooring, concrete foundation, here, to West Constr. Co., 907 Amer. Bldg., Baltimore. About $100,000. Plans include pen stock, concrete draft tube and tail and bridge races. Noted May 22.

★**Va., Roanoke**—Viscose Co. let contract building 2 story, 54 x 140 ft., rein.-con. factory, to D. J. Phipps, Roanoke.

★**Ia., Sioux City**—Marine Terminal Elevator Co., Grain Exch. Bldg., let contract building 46 by 90 ft. grain elevator, rein.-con. to Younglove Constr. Co., U. B. Bldg., Sioux City. About $500,000. Work includes head house and twenty four 20 x 99 ft. tanks.

★**Ky., Louisville**—B. F. Avery & Sons, 7th and Lee Sts., let contract for 2 story, 100 x 322 ft. rein.-con. plant, to Natl. Concrete Constr. Co., Bd. of Trades Bldg. About $115,000. Noted July 24.

Industrial Works (Continued)

★**O., Cleveland** — A. C. Bishop, archt., 427 Guardian Bldg., let contract to Younger & Farmer, 1670 Crawford Rd., building 5 story, 118 x 120 ft., concrete, steel and brick factory on West 46th St. and Train Ave., for Ko-Ko-Mar Co., Leader News Bldg. About $40,000. Noted July 17.

★**O., Cleveland** — Chester Realty Co., Williamson Bldg., let contract building 2 story, 55 x 120 ft., concrete, steel and brick garage, rein.-con. flooring, on East 65th St. and Carnegie Ave., to A. W. Laws Constr. Co., 2206 East 93rd St. About $50,000. Previous contract rescinded. Noted July 24.

O., Cleveland — Cleveland Illuminating Co., Illuminating Bldg., preparing plans for 3 story, 20 x 29 ft., concrete, steel and brick factory at 712 East 70th St. About $25,000.

★**O., Cleveland**—Corday & Gross, 113 St. Clair Ave., let contract building 2 story, 135 x 200 ft., rein-con., steel and brick factory and print shop, on East 24th St. and Chester Ave. to W. Dunbar Co., 8201 Cedar Ave. About $300,000. Noted Aug. 7.

★**O., Cleveland**—Dickey Grabler Mfg. Co., 10302 Madison Ave., let contract building 1 story, 69 x 220 ft., rein.-con., steel and brick machine shop, to W. Dunbar Co., 8209 Cedar Ave. About $50,000. Noted Aug. 7.

O., Cleveland—Vichek Tool Co., Mt. Auburn St., having plans prepared by G. S. Rider Co., archts., Century Bldg., for 1 story, 96 x 256 ft., rein.-con., steel and brick addition to factory. About $100,000, Noted Aug. 7.

★**O., Cleveland**—E. A. Weinberger, Society for Savings Bldg., let contract remodeling 4 story, 52 x 140 ft., rein.-con., steel and brick factory on Ontario St. and St. Clair Ave., to Uhl & Jaster Co., 1900 Euclid Ave. About $30,000. Noted July 31.

★**O., Columbus** — H. C. Holbrook, archt., 1014 Outlook Bldg., let contract to Knox & Phillip, Builders & Traders Exch., for 2 story, 123 x 150 ft., fireproof garage and salesroom, on East Long St., for O. G. Roberts, 177 North 4th St. About $75,000.

★**O., Columbus**—Timken Roller Bearing Co., Deuber Ave., Canton, let contract to D. W. McGrath, New 1st Natl Bank Bldg., erecting plant on 5th and Cleveland Aves., here. Plans include 282 x 482 ft. building, 164 x 66 ft., carbonizer house, 61 x 66 ft., boiler house and 36 x 62 ft. storage house, all 1 story, saw tooth construction. About $550,000. Noted July 10.

★**O., Dayton**—Consolidated Automobile Co., 222 West 3rd St., let contract building 2 story, 85 x 160 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation at 229 West 3rd St., to Frank Hill Smith Co., Inc., East 3rd St. About $85,000.

★**O., Dayton**—Memorial Garage & Sales Co. let contract building 4 story, 60 x 90 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation, on 1st and St. Clair Sts., to Frank Hill Smith Co., Inc., East 3rd St. About $75,000.

★**Ind., Indianapolis**—G. and J. Tire Co., 549 East Georgia St., let contract building 5 story, 100 x 400 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, to Stone & Webster, 38 South Dearborn St., Chicago. About $650,000.

★**Mich., Detroit**—Liberty Starter Co., West Fort St., let contract building 4 story, 62 x 119 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on 15th and West Fort Sts., to O. Misch Co., 725 Chamber of Commerce. Noted June 19.

★**Mich., Highland Park**—Ford Motor Co., let steel contract building 1 and 2 story, 408 x 520 ft., brick and steel storage building to American Bridge Co., Beecher St. and Michigan Central R.R. Masonry work will be done by company.

★**Mich., Muskegon**—Piston Ring Co., Sanford and Keating Sts., let contract building 4 story, 55 x 133 ft. rein.-con., brick and steel factory, also 1 story 65 x 65 ft. addition to factory and 60 x 65 ft. addition to power house, to Natl. Constr. Co., Water and 1st Sts.

★**Ill., Chicago**—All Amer. Truck Co., 2952 West Chicago St., let masonry contract to H. Ericson Co., 139 North Clark St., building 1 story, 60 x 830 ft. brick factory, concrete foundation, on West Grand and 65th Aves. Total cost, $200,000. Noted June 12.

★**Ill., Chicago**—G. E. Nimmons & Co. archts., 122 South Michigan Ave., let contract to E. H. Stowell Co. 19 South La Salle St., building 4 story, 100 x 120 ft. mill construction addition to factory, concrete foundation, on Ashland Ave. and 30th St., for Stein Hall & Co., 111 West Washington St. About $250,000. Noted July 10.

★**Ill., Chicago**—Triangle Motors, Inc., 2211 South Michigan Ave., let contract building 3 story, 60 x 125 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, at 2229-3- South Michigan Ave., to Mueller Constr. Co., 179 West Washington St. About $85,000.

★**Ill., Kankakee** — Paramount Knitting Co., will build 4 story, 100 x 100 ft. rein.-con. and brick mill. About $100,000. Work will be done by day labor.

★**Wis., Beaver Dam**—Malleable Iron Range Co. let contract building 1 and 2 story, rein.-con. and brick addition to foundry, rein.-con. flooring, concrete foundation, to Hutter Constr. Co., 128-136 Western Ave., Fond Du Lac. About $30,000.

★**Minn., Duluth**—Matshall-Wells Co., Lake Ave., S., let contract building 4 story, 115 x 250 ft., rein.-con. brick and steel addition to warehouse and office, rein.-con. flooring, concrete foundation, to Jacobson Bros., 410 Columbia Bldg., $50,160. Noted July 31.

★**Minn., St. Paul**—See "Buildings."

★**Kan., St. Johns**—City let contract for electric light plant improvements, including equipment, building and stack, to Merkle Mchy Co., Interstate Bldg., Kansas City, Mo. About $47,800.

★**Neb., Hastings**—J. H. Haney & Co. let contract building 6 story, 75 x 120 ft., brick factory, rein.-con. flooring, concrete foundation, to W. M. Gedney, Hastings. About $225,000.

★**Mo., St. Louis**—F. G. Haueisen, 3100 Rauschenbusch Ave., let contract building 2 story, 73 x 128 ft., brick factory, concrete foundation, to H. Schulte, 4453 North Taylor Ave. About $35,000.

★**Idaho, Pocatello**—Pocatello Mill & Elevator Co. let contract building 50,000 bu. grain elevator, 25,000 bu. grain storage tank and 100 barrel flour mill, to Burrell Eng. & Constr. Co., 327 South La Salle St., Chicago. About $100,000.

★**Wash., Port Angeles**—Amer. Aircraft Corp. let contract to C. Kuppler & Son, Port Angeles, erecting 1 story, 100 x 200 ft., open frame aircraft building and wharf on Ediz Hook Spit. About $50,000.

★**Wash., Seattle**—Davis Automobile Co., will build 1st unit of plant consisting of 1 story, 26 x 160 ft., concrete factory. Cost to exceed $50,000. Work will be done by day labor under supervision of C. D. Wilson, archt., Mutual Life Bldg. Second unit to include 80 x 160 ft. building will be erected later.

★**Cal., Los Angeles**—Albertson Motor Co., 16th and Figueroa Sts., let contract constructing 2 story, 155 x 160 ft., rein.-con. garage and sales building, concrete foundation, to Leonardt & Pack, H. W. Hellman Bldg. About $70,000.

★**Cal., Los Banos** — Central California Creameries Co., let contract building 3 story, 150 x 150 ft. creamery, 1 story power house and 1 story warehouse, rein.-con. to Lange & Bergstrom, Sharon Bldg., San Francisco, $66,600. Noted Aug. 7.

★**Cal., Soledad**—Salinas Valley Diarymen's Assn. let contract building 2 story, milk handling plant, rein.-con. to Clinton Constr. Co., 140 Townsend St., San Francisco. About $75,000.

★**Cuba, Havana**—Aid Reduction Co., 120 Bway., New York City, let contract building 2 story, 98 x 108 ft., rein.-con. and steel plant, rein.-con. flooring, concrete foundation, to Hamilton & Chambers, 29 Bway., New York City. About $100,000. Noted April 17.

Buildings

PROPOSED WORK

Mass., Turners Falls—Bank—T. M. James, archt., 185 Devonshire St., Boston, soon receives bids building brick bank here, concrete flooring and foundation, for Natl. Bank, 52 Ave. A. About $50,000.

Mass., Webster—Hotel—H. Lougue Vue Hotel Co. plans to build hotel on Lake Shore. About $250,000. G. Bihldorf, pres. Engineer not selected.

Mass., Worcester — Memorial Hall — City plans to build large auditorium in commemoration of soldiers and sailors. About $250,000. C. L. Allen, chn. municipal auditorium comn.

R. I., Providence — Business — W. G. Richards, archt., 17 Exchange St., receives bids about Aug. 20, building 3 story, 80 x 100 ft., brick and concrete, rein.-con. flooring, concrete foundation, on North Main St., for J. Marcus & Bro., 210 North Main St. About $60,000. Noted July 24.

Conn., Bridgeport—Church—L. A. Walsh, engr., 51 Leavenworth St., Waterbury, soon receives bids building 50 x 130 ft. brick and steel superstructure of church on Park Ave., for St. George Lithuanian Congregation, Park Ave. and Johnson St. About $50,000. M. A. Pankouskas, pastor.

Conn., Hartford — Hotel—Berenson & Moses, archts., 1026 Main St., soon receive bids building 5 story, 120 x 130 ft., brick concrete and steel apartment hotel, to include restaurant, dance hall, etc., concrete flooring and foundation, on Jewell Ct. for N. Carabillo, 5 Edwards St. About $225,000.

Conn., Hartford—Office—Hartford Fire Insurance Co., 125 Trumbull St., having plans prepared by E. S. Dodge, 15 Exchange St., Boston, for fireproof office building on Asylum St. About $1,000,000. Noted June 5.

Conn., Hartford—Office — Orient Insurance Co., 20 Trinity St., plans to build 6 story addition on Clinton St. A. G. McElwaine, pres. Engineer not selected.

Conn., Hartford — Store — A. Steiger Co., 345 Main St., Springfield, plans to build department store on Main and Pratt Sts., here. About $500,000.

Conn., Middletown — Housing — F. B. Caldwell, engr., 886 Main St., Bridgeport, soon receives bids building twenty 1 and 2 story, brick and frame houses for workmen, for Middletown Housing Corp., 303 Main St. About $100,000. Noted June 26.

Conn., New Britain—Club—New Britain Boys Club, 85 East Main St., plans to build 1 story brick and concrete addition, concrete foundation to include baths, locker room and gymnasium. About $50,000. W. P. Crabtree, 272 Main St., engr.

Conn., Newington—Home—Connecticut Childrens Aid Society plans to build new home to include dormitory, school, hospital, nurses home and offices. About $500,000. Address C. E. Whitney, Bartholomew Ave., Hartford.

Conn., Norwalk—Bank—Fairfield Co. Savings Bank, 51 Wall St., having plans prepared by J. M. Vance, archt., 24 North St., Pittsfield, Mass., for bank on Wall St. About $50,000.

Conn., South Manchester—Bank—Hutchins & French, engrs., 6 Beacon St., Boston, soon receive bids building 1 story brick, steel and concrete, rein.-con. flooring and foundation on Main St., for Manchester Trust Co., 1007 Main St. About $60,000. Noted July 17.

Conn., Trumbull—School—Town plans to build brick school in Long Hill Sect. No. 1. About $50,000. H. F. Randall, selectman. Engineer not selected.

Conn., Trumbull—School—Town plans to build brick school in Nichols Dist. About $50,000. H. F. Randall, selectman. Engineer not selected.

Conn., West Hartford—(Hartford P. O.) —School—Amer. School for Deaf, 61 Garden St., Hartford, plans to build several new schools. About $350,000. H. A. Perkins, pres. I. A. Allen, Jr., Inc., 904 Main St., Hartford, engrs.

N. Y., Albany—School—Bd. Contr. & Supply having plans prepared by A. Selkirk, archt., 133 North Pearl St., for P. S. 23, Whitehall Rd. About $300,000.

N. Y., Brooklyn—Temple—Masons of New York (Ridgewood Lodge) having plans prepared by Koch & Wagner, archts., 32 Court St., for 3 story, 100 x 100 ft. brick, steel and stone, brick foundation, on Bway. and Gates Ave. About $1,000,000.

N. Y., Gouverneur—Theatre—J. C. Carpenter having plans prepared by A. W. Skinner Co., archts., Rothstock Bldg., Watertown, for 60 x 125 ft. brick, concrete and tile, on Main St. About $60,000.

N. Y., Herkimer—School—City voted $220,000 bonds to build 3 story brick, to replace North School. Address W. C. Prescott, chn. bldg. com. Noted July 17.

N. Y., Liverpool—School—Bd. Educ. plans to build 3 story brick and concrete. About $200,000.

N. Y., Lockport—Bank—Natl. Exch. Bank, 45 Main St., plans to build 3 story brick, concrete and steel, on Main and Pine Sts. About $100,000. W. E. McComb, pres.

N. Y., New York—Hotel—Hotel Plaza Operating Co., 1-13 West 59th St., having plans prepared by Warren & Wetmore.

Buildings (Continued)

archts. and engrs., 16 East 47th St., altering 18 story, 150 x 200 ft. brick and steel. About $2,500,000. Address B. Beinecke, pres.

N. Y., New York—Hotel—Warren & Wetmore, archts., 16 East 47th St., receive bids about Aug. 16, building 180 x 200 ft. brick, steel and stone, brick foundation, on Park Ave. and 51st St., for D. M. Linard Co., c/o architects. About $7,500,000. H. Balcom, 16 East 47th St., engr. Noted June 26.

N. Y., New York—Loft—T. A. Meyer, archt. and engr., 114 East 28th St., soon lets contract building 12 story, 25 x 100 ft. brick, steel and stone, brick foundation, on Madison Ave. and 30th St., for S. Strauss & Co., 127 East 26th St. About $140,000.

N. Y., New York—Office—C. H. Gillespie, archt., 1123 Bway., receives bids about Aug. 30, building 6 story, 32 x 100 ft., brick, steel and stone, brick foundation, at 47-49 Beaver St., for Importers & Exporters Insurance Co., 17 South William St. About $75,000.

N. Y., New York—Office—Internatl. Tailoring Co., 97 East Houston St., having preliminary plans prepared by Starrett & Van Vleck, archts., 8 West 40th St., for 12 story, 116 x 142 ft., brick and steel, brick foundation, on 4th Ave. and 12th St. About $750,000.

N. Y., New York — Office — Munson Steamship Line, 82 Beaver St., having plans prepared by J. G. Rogers, archt. and engr., 367 Lexington Ave., for altering 15 story, brick and steel building. About $60,000.

N. Y., New York—Parish—St. Jude's Chapel, West 99th St., having plans prepared by Ludlow & Peabody, archts. and engrs., 101 Park Ave., for 5 story, 25 x 100 ft., brick and steel, brick foundation.

N. Y., New York—Store and Bank—Columbia University, 63 Wall St., having plans prepared by McKimm, Mead & White, archts. and engrs., 101 Park Ave., altering 5 story, brick, steel and stone, brick foundation, at 618-620 5th Ave. About $50,000.

N. Y., Rochester—Bank—Alliance Bank Bldg., had plans prepared by J. F. Warner, archt., for 2 story brick, concrete and steel, on Lake Ave., used as Ridgeway branch. About $250,000. J. G. Cutler, pres.

N. J., Cinnaminson—School—Bd. Educ. having plans prepared by J. F. Street, archt., 129 South 5th St., Phila., for 2 story, 79 x 120 ft., brick.

N. J., Newark — Office — Globe Indemnity Co., 45 Williams St., New York City, having plans prepared by F. Goodwillie and W. Bissell, engrs., 56 West 45th St., New York City, for 6 story, 100 x 200 ft., brick and steel on Washington St., here. About $1,000,000.

N. J., Plainfield—Convent — Sisters of Mercy plan to build convent to include chapel and assembly hall. About $300,000. T. J. Walsh, 153 North Warren St., Trenton, bishop.

N. J., Trenton—Offices—See "Industrial Works."

Pa., Altoona—Bank—Union Bank of Altoona, 8th Ave. and 12th St., plans to build 4 story, 75 x 75 ft. stone, brick and steel. About $100,000. Architect not selected.

Pa., Butler—Bank—Guarantee Safe Deposit & Trust Co., 231 South Main St., had plans prepared building 1 story, 60 x 98 ft. rein.-con., steel, brick and granite, rein.-con. flooring, concrete foundation, on Jefferson St. About $50,000. Weary & Alford Co., 1732 South Michigan Blvd., Chicago, archts.

Pa., Carbondale—Comfort Station—City plans to build 2 story, 40 x 50 ft. rein.-con., steel and brick, rock foundation, on Main St. About $50,000. Architect not selected.

Pa., East Pittsburgh—School—City election Aug. 29 to vote on $200,000 bonds to build school.

Pa., Harrisburg—Synagogue—Chev Sholem congregation having plans prepared by F. T. Fahnestock, archt., Patriot Bldg., for 1 story, 47 x 78 ft. Indiana limestone, on North Front St. About $50,000.

Pa., Phila.—Bank—Central Trust & Savings Co., 4th and Market Sts., plans to build brick bank at North 4th and Market Sts. W. C. Furber, 418 Walnut St., archt.

Pa., Phila.—Bank—Mutual Trust Co., 60th and Ludlow Sts., having plans prepared by Heacock & Hohansen, archts., 1218 Chestnut St., for 2 story, stone and brick.

Pa., Phila.—Chapel—St. Barnabus Roman Catholic congregation, 63rd and Buist Sts., plans to build stone chapel. G. I. Lovatt, 418 Walnut St., archt.

Pa., Wilkes-Barre—High School—City having plans prepared by R. Ireland, archt. and engr., North Washington St., building 3 story, 63 x 276 ft. with 75 x 75 ft. wing rein.-con., steel and brick, rein.-con. flooring, concrete, foundation, on Grant and Sherman Sts. About $400,000.

Md., Baltimore—Bank—Mercantile Trust & Deposit Co., Calvert and Redwood Sts., having plans prepared by Trowbridge & Livingston, archts., 527 5th Ave., New York City; remodeling and building 2 story, rein.-con., steel and brick addition. About $60,000.

Md., Baltimore — Theatre — Century Theatre Co., Inc. plans to build 2 story, 120 x 178 ft., rein.-con. and brick, concrete foundation, at 18 West Lexington St. and 1021 Clay St. About $750,000. C. E. Whitehurst, Park Ave. and Lexington St., pres., J. J. Zink, 213 North Calvert St., archt.

W. Va., Follansbee — Schools — Cross Creek School Dist. voted $150,000 bonds to build 90 x 120 ft., brick high school, and $75,000 bonds for 2 grade schools. M. L. Wells, Wellsburg, archt.

O., Cincinnati—Home—Orthodox Jewish Home for Aged, 1406 Myrtle Ave., receives bids about Aug. 25, building 3 story, 38 x 98 ft., brick, concrete foundation, on Maple Ave. About $50,000. H. M. Price, 901 Union Central Bldg., archt. and engr.

O., Cincinnati — Hotel — Gibson Hotel, Walnut St., plans to build addition on 5th St. About $1,500,000. Architect not selected.

O., Cincinnati—Memorial Hall—A. Wilson, 378 La Fayette Ave., plans to build memorial hall on Clifton Ave. Building will be donated to University of Cincinnati and will adjoin university group. About $400,000. Architect not selected.

O., Cleveland—Church—Third Reformed Church, 1531 East 36th St., having plans prepared by P. Matsinger, archt., 608 Caxton Bldg., for 1 story, 72 x 100 ft., rein.-con., steel and brick, on Eddy Rd. About $60,000. Noted Aug. 7.

O., Cleveland — Theatre — Hoffman Bros., Electric Bldg., having preliminary plans prepared by Lehman & Schmidt, archts., 210 Electric Bldg., for 4 Story, 101 x 164 ft., rein.-con., steel and brick, at 10210 Euclid Ave. About $250,000. Noted July 31.

O., Cleveland—Theatre—Loew Theatres, 1492 Bway., New York City, having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, for 123 x 175 ft., steel and brick, brick foundation, on Euclid Ave., here. About $300,000.

O., Cleveland—Theatre—Loew Theatres, 1492 Bway., New York City, having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, for 130 x 190 ft., steel and brick, brick foundation, here. About $310,000.

O., Cleveland—Theatre and Office—A. A. Allen Co., archts., 1900 Euclid Ave., receive bids in fall building 10 story, 150 x 225 ft., rein.-con., steel and brick, on East 14th St. and Euclid Ave., here, for Allen Bros., Richmond St., Toronto, Ont., c/o architects. About $175,000. Noted July 31.

O., Cleveland—Theatre and Office—J. Laronge Co., 214 Williamson Bldg., having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, for 10 story, 160 x 188 ft., rein.-con., steel and brick, on East 14th St. and Euclid Ave. About $3,000,000. Noted July 31.

O., Columbus — Chemistry — Bd. Trustees of Ohio State University rejected bids received June 16, building 1 story, 140 x 205 ft., factory construction, rein.-con. flooring, concrete foundation, on campus. About $85,000. Noted June 12.

O., Columbus—Club—Bd. Trustees of Ohio State University rejected bids received June 16, building 3 story, brick, with two 30 x 130 ft. wings, rein.-con. flooring, on campus. About $240,000. Noted June 12.

O., Columbus — Store—A. Dobbie, 130 South High St., plans to build 5 story, 62 x 187 ft., on 3rd and Broad Sts. About $375,000. Architect not selected.

O., New Carlisle — School—Bd. Educ. plans to build 3 story, 85 x 110 ft., rein.-con., steel and brick, concrete foundation. About $115,000. Hall & Lethly, Springfield, archts.

O., South Euclid — School — Bd. Educ. having plans prepared by W. H. Nicklas, archt., 1900 Euclid Bldg., Cleveland, for 1 story, 75 x 150 ft., rein.-con., steel and brick. About $150,000. Noted Aug. 7.

O., Steubenville — Bank — Steubenville Bank & Trust Co. having estimates made and plans prepared for 12 story, 53 x 110 ft., granite, marble and white brick, on 4th & Market Sts. Walker & Weeks, 1900 Euclid Ave., Cleveland, and P. Clark, Steubenville, archts.

O., Tremont City—School — Bd. Educ. plans to build 2 story, 60 x 90 ft., rein.-con. and brick, concrete foundation. About $50,000. Hall & Lethly, Springfield, archts.

Mich., Detroit—Hotel and Lodge—Palestine Assn., 150 Fort St., plans to build 12 story, 100 x 130 ft., brick and steel, on Fort St. and Lafayette Ave. About $1,600,000. Fort Shelby Hotel, lessee. Architect not selected.

Mich., Detroit—Lodge House—Acacia Lodge, c/o A. Clubb, archt., 26 Goebel Bldg., having plans prepared for 3 story, 60 x 80 ft. brick, rein.-con. and stone, wood flooring, concrete foundation, on Mack Ave. near Fisher Ave. About $50,000.

Mich., Detroit—School and Club—St. Hedwigs congregation, St. Hedwig St. and Junction Ave., had plans prepared by H. J. Rill, archt. 753 14th St., for 3 story, 65 x 145 ft., brick and steel rein.-con. flooring, concrete foundation. About $200,000.

Mich., Grand Rapids — Seminary — St. Joseph Seminary, Boston St., having plans prepared by Spier & Gehrke, archts., 1317 Chamber of Commerce Bldg., Detroit, for 3 story, 90 x 200 ft. rein.-con. brick and stone, rein.-con. flooring, concrete foundation, on Boston St. and Union Ave. About $200,000.

Ill., Chicago—Office—Chicago Tribune Co., 6 South Dearborn St., retained J. Hunt, archt., 30 North Michigan Ave., to draw plans for 150 x 150 ft., on St. Clair and Illinois Sts. About $500,000.

Ill., Chicago—Store—E. Hillman, State and Washington Sts., plans to build 65 x 140 ft., at 16-18 North State St. About $1,250,000. Mundie & Jensen, 39 South La Salle St., archts.

Wis., Janesville — Bank and Office — Bower City Bank, Main and East Milwaukee Sts., having plans prepared by Childs & Smith, archts., 64 East Van Buren St., Chicago, building 6 story, 50 x 125 ft. rein.-con., stone and brick, rein.-con. flooring, concrete foundation. About $200,000.

Ia., Ames—Armory—State Bd. Educ., Des Moines, having plans prepared by Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, for 1 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. T. Sloss, bldg. supt. About $125,000.

Ia., Davenport—Theatre and Office—C. W. and G. L. Rapp, archts., 190 North State St., Chicago, receive bids in August building 10 story, 145 x 150 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on 3rd and Ripley Sts., for H. C. Kahl, c/o Walsh Kahl Constr. Co., Davenport. About $1,000,000.

Ia., Sioux City—Bank and Office—First Natl. Bank, c/o L. P. McMillin, pres., having plans prepared by W. W. Beach, archt., Sioux City, building 2 story, 50 x 100 ft., rein-con. and brick, rein-con. flooring, concrete foundation. About $75,000.

Minn., Centerville—School—Bd. Educ. rejected bids received July 16, building 2 story, 50 x 62 ft., concrete, brick and tile. About $50,000. Magney & Tusler, Builders' Exch., Minneapolis, archts. and engrs. Noted July 10.

Minn., Glen Lake (Hopkins P. O.)—Hospital—Lenora Christian Preventorium, c/o Anti-Tuberculosis Assn., 25 Old Chamber of Commerce Bldg., Minneapolis, having revised plans prepared by Sund & Dunham, archts., 514 Essex Bldg., Minneapolis, for 3 story, 43 x 135 ft., rein.-con. and brick. About $75,000.

Minn. Minneapolis—School—Bd. Educ. soon lets contract building 1 story, 60 x 194 ft. addition to Whitney School on 19th Ave., N., and Pierce St. About $90,000. Bureau Bldgs., c/o Bd. Educ., archts. Noted June 26.

Minn., Princeton — School—School Bd. having plans prepared by Foss & Foss, archts., St. Cloud, for 75 x 116 ft. About $75,000.

Kan., Atchison—Memorial Hall—City plans to build 2 story, brick memorial hall. About $185,000. R. Meier, 2526 Jule St., St. Joseph, Mo., archt. Noted July 24.

Kan., Independence—Bank and Office—Commercial Nat'l Bank having plans prepared by Weary & Alford, archts., 1907 South Michigan Ave., Chicago, building 6

Buildings (Continued)

story, 70 x 140 ft. rein.-con., brick and stone, rein.-con. flooring, concrete foundation. About $150,000. G. T. Guernsey, pres.

Kan., Lyndon—Court House—Osage Co. having plans prepared by W. E. Hulse & Co., archts., Hutchinson, building 3 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $200,000.

Kan., McPherson—Science Hall—McPherson College soon receives bids building 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation. About $65,000. W. E. Hulse & Co., Hutchinson, archts. Noted June 5.

Kan., Pittsburg—School—Bd. Educ. plans to build fireproof school. About $275,000. W. T. Schmitt, 1634 West 10th St., Oklahoma, archt. Noted June 26.

Kan., Topeka — Dormitory — Washburn College, 17th and College Sts., rejected bids and will have revised plans prepared for 3 story, 75 x 150 ft. About $125,000. R. E. Scarnell, Topeka, archt. Noted April 3.

Kan., Wichita—School—Bd. Educ. having plans prepared by L. Schmidt., archt., 121 North Market St., and soon receives bids building 3 story brick, to be known as Mark Twain School. About $250,000.

Neb., Hickman—School—Bd. Educ. having plans prepared for 2 story, 60 x 100 ft., brick, brick and concrete foundation. About $50,000. Tyler, Brandt & Tyler, 418 Richards Blk., Lincoln, archts.

Neb., Norfolk—High School—City plans election soon to vote on $225,000 bonds to build 3 story high school. A. Showalter, supt. bd. educ.

Wyo., Lusk — Church — Trustees Congregational Church soon receive bids building 70 x 115 ft., pressed brick and timber, concrete foundation. About $50,000. W. N. Bowman, Central Savings Bang Bldg., Denver, Colo., archt.

Wyo., Powell — High School — Powell School Dist. having plans prepared by McIver, Cohagen & Marshall, archts., 407 Electric Bldg., Billings, Mont. for 2 story high school and gymnasium. About $60,000.

Mont., Lewistown—Grade School—School Dist. No. 1 soon receives bids building 2 story, 8 room school. About $50,000. O F. Wasmansdorff, 403 Bank-Electric Bldg., archt.

Mo., Chillicothe — Church — Christian Church, c/o S. W. Nay, plans to build fireproof church. About $60,000. Architect not selected.

Mo., Columbia — Church, Etc. — Methodist Church South plans to building church and educational building. Cost including sites, $350,000. Architect not selected. Address S. W. Hayne, pastor.

Mo., Columbia — Dormitory — Stevens College plans campaign to raise $500,000 to build dormitories, classrooms etc. Address J. W. Wood, pres.

Mo., Excelsior Springs — Temple—Masonic Bldg. & Realty Co. having plans prepared by Owens & Payson, archts., Kansas City, for 3 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $100,000.

Mo., Florrisant—Office—See "Industrial Works."

Mo., Liberty—College—W. Jewell College plans to build. About $200,000. Architect not selected.

Tex., El Paso—City Hall—City plans election to vote on $175,000 bonds to build city hall. W. C. Stewart, city engr.

Tex., El Paso—Schools—City plans election to vote on $220,000 bonds to build schools.

Tex., Ft. Worth—Hotel—H. H. Morrison, engr., Fullerton Bldg., St. Louis, soon receives bids building 17 story, 108 x 200 ft. and 108 x 220 ft. terra cotta, brick, concrete and steel, rock foundation, on 8th and Commerce Sts., for Winfield Hotel Co., Ft. Worth. About $1,000,000. Mauran, Russell & Crowell, Chemical Bldg., St Louis, archts.

Tex., Moody—High School—City plans to build 2 story school. Bonds for $50,000 voted for project. C. H. Page & Bro., Austin Natl. Bank Bldg., Austin, archts.

Tex., Wharton—High School—City plans to build 2 story, 60 x 112 ft. school. About $100,000. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, archts.

Okla., Alva — Gymnasium — State Bd. Affairs, c/o G. Clark, Oklahoma, having plans prepared for 1 story, 71 x 180 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, here. Layton, Smith & Forysth, 701 Majestic Bldg., Oklahoma, archts.

Okla., Frederick—Court House—Tillman Co. plans election soon to vote on $100,000 bonds to build brick courthouse, here. Architect not selected.

Okla., Hugo—Church—W. E. King, secy. bldg. com., Methodist Episcopal Church, having plans prepared by Hawk & Parr, archts., 501 Security Bldg., Oklahoma, for 2 story, 70 x 108 ft., brick and steel, concrete foundation. About $80,000.

Okla., Okmulgee—Church—First Presbyterian Church having plans prepared by Smith Rea, Lovitt & Senter, archts., Okmulgee, building 1 story, 57 x 124 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation. About $65,000.

Okla., Okmulgee — Theatre — S. H. D. Cook having plans prepared by Smith, Rea, Lovitt & Senter, archts., Okmulgee, building 2 story. About $100,000.

Okla., Ponca City—Business—E. C. Vetzel having plans prepared building 3 story, 50 x 140 ft., brick. Rixse & Jenkins, archts., Ponca City, soon receive bids. About $52,000.

Okla., Tulsa—Cans Motor Co., 1203 Admiral St., plans to build 2 story, 100 x 140 ft., brick factory, at 203 North Cincinnati St. About $55,000. Architect and engineer not selected.

Colo., Arvada — High School — Arvada School Dist. soon receives bids building 3 story, 60 x 125 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. H. W. J. Edbrooke, Tabor Opera House Bldg., Denver, archt.

Colo., Denver—Office—State Bldg. Comn., receives bids in October for 5 story, 112 x 114 ft. on Colfax Ave. and Sherman St. About $500,000. W. N. Bowman, Central Savings Bank Bldg., archt.

N. M., Santa Fe—Hotel—J. W. Cook, Coffeyville, Kan., plans to build 3 story, 150 x 200 ft., here. Cost between $100,000 and $125,000. Architect not selected.

Idaho, Twin Falls—Tabernacle and Academy—Latter Day Saints Church of Mormons plans to build 2 to 4 story, brick or stone, cost, $100,000, also addition to 5th St. church, $25,000.

Ariz., Tucson—Hotel—L. H. Manning having preliminary plans prepared by W. Bray, archt., Tucson, for hotel on Paseo Redondo St. About $250,000.

Wash., Tacoma — Business — Company, representing eastern capital, plans to build 15 story, concrete and brick, on Pacific Ave. and 11th St., here. About $100,000. G. W. Simpson, Phila. main stock holder. F. Webber, Morris Bldg., Phila., archt.

Ore., Astoria—Hotel — Weinhard Hotel Co. having preliminary plans prepared by Whidden & Lewis, archts., Wilcox Bldg., Portland, for 5 story brick hotel annex, concrete foundation. About $100,000. F. N. Whitman, mgr.

Ore., Klamath Falls — Theatre — H. W. Poole having plans prepared for 2 story, 50 x 103 ft. brick or concrete. Cost to exceed $50,000.

Cal., Capitola—Hotel—H. A. Rispin having preliminary plans prepared by G. E. McCrea, archt., 1st Natl. Bank Bldg., Oakland, for 5 story, concrete and timber, concrete foundation.

Cal., El Segundo—School—School Trustees soon receive bids building 2 story, concrete and brick, containing 12 rooms. About $90,000. Train & Williams, Exch. Bldg., Los Angeles, archts. Noted April 17.

Cal., Fresno—Library—Bd. Supervs. Fresno Co. purchased site on M and Mariposa Sts. and plan to build library. About $400,000. Address D. M. Barnwell, co. clk.

Cal., Fullerton—Lodge—Masonic Lodge plans to build 2 story, brick and terra cotta, on Spadra and Chapman Aves. About $60,000. Architect not selected.

Cal., Los Angeles—Loft—See "Industrial Works."

Cal., Martinez — High School — City voted $125,000 bonds to build school on 6 acre site. Noted July 10.

Cal., Modesto—Store—G. P. Shafer Co. incorporated with $250,000 capital stock and plans to build 4 or 5 story. W. S. Thompson, mgr. Architect not selected.

Cal., Oakland—College—St. Mary's College, Bway. and Hawthorne St., purchased 250 acre site, and plans to build college to include dormitories, chapel, library, theatre, stadium, etc. Architect not selected.

Cal., Oakland—Office—See "Industrial Works."

Cal., San Francisco — Bank—Bank of Italy, Montgomery and San Francisco Sts., soon receives bids building 6 story, 65 x 75 and 75 x 100 ft., stone and steel on Powell and Ellis Sts. Cost to exceed $400,000. Bliss & Faville, Balboa Bldg., archts. Noted April 17.

Hawaii, Honolulu—Bank—T. Rontzberg, engr., Crocker Bldg., San Francisco, soon receives bids building 3 story, rein.-con., steel and brick here, for Davies Co., Ltd., Honolulu. About $400,000. Hickey & Wood, Honolulu, archts.

BIDS DESIRED

Mass., Worcester—Hospital—Until Aug. 30, by G. C. Halcott, supt. pub. bldgs., building 2 story, 33 x 149 ft. brick, concrete foundation, on Belmont St. About $160,000. Fuller & Delano, 44 Front St., archts.

N. Y., East White Plains—School—Until Aug. 27, by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, building brick and steel, brick foundation, at Silver Lake, here, for Bd. Educ. About $80,000.

N. Y., Hobart—School—Until Aug. 23, by Bd. Educ of Union Free Dist. No. 4, Sanford, building 2 story 36 x 100 ft. brick, steel and stone, here. About $300,000. Rasmussen & Wayland, 1133 Bway., New York City, archts.

N. J., Maple Shade—School—Until Aug. 18, by Bd. Educ., building 2 story, 63 x 112 ft., brick. About $80,000. W. C. Furbei, 418 Walnut St., Phila., archt. Noted July 24.

N. J., Trenton—Hotel—Until Sept. 3, by Stacy-Trent Hotel Co., Broad St. Bank Bldg., building 12 story, rein.-con. brick and steel on West State St. About $1,000,000. Esenweim & Johnson, Ellicott Sq. Buffalo, N. Y., archts. Noted August 7.

Pa., Farview (Carbondale P. O.)—Hospital—Until Sept. 6, by State Hospital for Criminal Insane, building 2 story, 41 x 170 and 18 x 40 ft., concrete, steel and brick, concrete foundation. C. Hillman & Son 400 Chestnut St., Phila., archts.

Pa., Hazelton — High School — Until Aug. 16, by School Dirs. and D. A. Harman, archt., 89 North Church St., building 2 story, 60 x 300 ft. steel and brick, rein.-con. flooring, rock foundation, on Church St. About $250,000.

Pa., Hazelton — School — Until Aug. 16 by Bd. School Dirs. and D. A. Harman, archt., 89 North Church St., building 2 story, 50 x 50 ft., steel and brick, rein.-con. flooring, rock foundation. About $65,000.

Pa., Jeannette—Office—Elliott Co. receiving bids building 2 story, 57 x 182 ft., steel and brick, tile flooring, concrete foundation. T. Hannah, 209 9th St., Pittsburgh, archt.

Pa., Watsontown—School—Until Aug. 20 by G. S. Frederick, secy. bd. educ., building 2 story, 45 x 60 ft., brick, at Springtown, Delaware Twp., for Delaware Twp. School Dist. About $50,000. F. A. Hersh and F. J. Shollar, Commerce Bldg., Altoona, archts.

Pa., West Bethlehem (Bethlehem P. O.) —School—Until Aug. 19, by Bd. Educ. building 2 story, 176 x 185 ft. rein.-con. and brick. About $200,000. Former bids rejected. Ritter & Shay, North Amer. Bldg., Phila., archts. Noted June 12.

O., Cleveland — Church — J. K. Katsary, archt., 303 Erie Bldg., receiving bids building 2 story, 46 x 85 ft., rein.-con., steel and brick, at 2187 West 14th St., for Hellenic Orthodox Community. About $75,000. Noted July 31.

O., Cleveland — Office — E. McGeorge, archt., 1800 Euclid Bldg., receiving bids building 2 story, 39 x 123 ft., rein.-con., steel and brick addition, for Parish & Bingham, 10601 Madison Ave. About $75,000. Noted July 31.

O., Cleveland—Salesroom—P. Matsinger, archt., 608 Caxton Bldg., receiving bids building 4 story, 20 x 119 ft., rein.-con., steel and brick, for L. Maxa, Pub. Sq. About $50,000.

O., Miamisburg—Business—Until Sept. 1, by R. Gebhardt, archt., Callahan Bank Bldg., Dayton, building 2 story, 50 x 125 ft., brick, brick foundation, on Main St., for B. Suttman. About $50,000.

Mich., Detroit — Mercantile — Smith, Hinchman & Grylls, archts., 710 Washington Arcade, receiving bids building 1 story, 90 x 200 ft. steel and brick addition, for Crowley Milner Co., Gratiot Ave. About $50,000. Noted Apr. 10.

Buildings (Continued)

Mich., Detroit—Schools—Until Aug. 21, by C. A. Gadd, business mgr. bd. educ., building 1 story, 57 x 91 ft. addition to Ellis School No. 1110, on 35th and Junction Aves., cost $70,000; 2 story, 78 x 105 ft. school on Burns and Goethe Aves. to be known as Nichols School, $160,000, 2 story, 110 x 130 ft. school on Vinewood and Buchanan Aves., to be known as G. M. Condon School, all rein.-con., steel and brick, rein.-con. flooring, concrete foundation. Malcolmson & Higginbotham, 404 Moffat Bldg., archts.

Ill., Aurora — Church — S. S. Beman, archt., 332 South Michigan Ave., Chicago, receiving bids building 1 story, 60 x 100 ft. brick and timber, concrete foundation, on Main and 4th Sts., for 1st Christian Science congregation. About $60,000.

Ill., Chicago—Library and Office—Holabird & Roche, archts., 104 South Michigan Ave., receiving bids for 15 story, 80 x 80 ft. steel and tile arch construction, concrete foundation, on Randolph St. and Michigan Blvd., for John Crerar Library, Marshall Field Bldg. About $1,250,000. Noted July 31.

Ia., Storm Lake — Gymnasium — Until Aug. 21, by Buena Vista College, c/o G. E. Mack, treas., building 1 story, concrete, steel and brick, rein.-con. flooring, concrete foundation. About $56,000. Marten & Sutherland, Storm Lake, archts. Noted July 17.

Minn., Ely — School — L. J. White, clk. bd. educ., receiving bids for 1 story, 60 x 95 ft., rein.-con. and brick industrial school. About $80,000. H. C. Parsons, 600 Builders Exch. Bldg., Minneapolis, archt. and engr. Noted June 12.

Minn., Minneapolis — Hotel — Minnesota Hotel receiving bids for 15 story, 100 x 157 ft. on 4th St. and 2nd Ave., S. About $800,000. Betrand & Chamberlin, 616 Northwestern Bank Bldg., archts.

Minn., Minneapolis—School—Until Aug. 18, by Bd. Educ., building 3 story, 63 x 116 ft., rein.-con. and brick addition to Willard School on Queen St. and 16th Ave., N. About $90,000. Bureau Bldgs., c/o Bd. Educ., archts. Noted May 8.

Minn., Montevideo—Theatre, Office and Lodges—Until Aug. 22, by F. D. Borene, secy. Home Bldg. Assn., Inc., building 3 story, 50 x 120 ft., concrete, brick and terra cotta. Cost between $65,000 and $70,000. P. O. Moe, 616 New York Life Bldg., Minneapolis, archt.

Minn., St. Paul — Hotel and Theatre — Until Sept. 15, by Toltz, King & Day, archts., 1410 Pioneer Bldg., building 16 story, rein.-con. and brick, rein.-con. flooring, rock foundation, on St. Peter St., here, for Hamm, Ruben & Finkelstein, Palace Theatre, Minneapolis. About $1,000,000. Noted July 3.

Minn., Thief River Falls — Bank and stores—Until Aug. 23, by 1st and Peoples State Bank, building 3 story, rein.-con. and brick. About $52,000. Sund & Dunham, Essex Bldg., Minneapolis, archt.

Kan., Manhattan — Engineering — Until Aug. 26, by State Bd. Administration, State House, Topeka, building 3 story, 22 x 56 ft. and 2 story, 50 x 112 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation. About $190,000. R. L. Gamble, 1114 Fillmore St., Topeka, archt. Noted Aug. 7.

Neb., Blue Springs—Bd. Educ. receiving bids building 3 story, 100 x 140 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $150,000. W. E. Hulse Co., Hutchinson, Kan., archts.

Tex., Cameron—High School—Until Sept. 1, by School Bd. Trustees, building 2 story, brick, rein.-con. and steel, rein.-con. flooring. About $100,000. C. H. Page & Bro., Austin Natl. Bank Bldg., Austin, archts. Noted June 26.

Tex., Ft. Worth—Office and Bank—Until Sept. 1, by Farmers Mechanics Natl. Bank, 712-14 Main St., for 24 story, 95 x 100 ft. rein.-con., brick and steel, rock foundation. About $1,500,000. Sanguinet & Staats, 1st Natl. Bank Bldg., archts. H. H. Morrison, Fullerton Bldg., St. Louis, Mo., engr. Noted July 3.

Tex., Victoria—Bank—Until Sept. 3, by Levy Bank & Trust Co., building 2 story, rein.-con., brick and steel, rein.-con. flooring. About $70,000. C. H. Page & Bro., Austin Natl. Bank Bldg., Austin, archts. Noted June 26.

Okla., Holdenville — Court House and Jail—Comrs. Hughes Co. receiving bids building 3 story, 88 x 96 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation. About $125,000. Layton Smith & Forsyth, 701 Majestic Bldg., Oklahoma, archts.

Okla., Ponca City—Club—Moose Lodge receiving bids building 3 story, concrete, steel and brick, concrete foundation. About $60,000. Layton, Smith & Forsyth, 701 Majestic Bldg., Oklahoma, archts.

N. S., Halifax—Schools—Until Aug. 30, by S. J. Wilson, secy. school comrs., building four 2½ story brick schools, rein.-con. flooring, concrete foundation, in suburbs. About $180,000.

Que., Outremont—Convent—Until Sept. 1, by Sisters of Immaculate Conception, building 3 story, 50 x 72 ft. brick and steel, concrete foundation, on Queen Mary St. About $50,000. Private plans.

Ont., Peterborough—School—Until Sept. 1, by G. H. Thompson, secy. bd. educ., building 2 story, concrete, steel and brick, concrete foundation. About $100,000. W. and W. R. Blackwell, Peterborough, archts.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Attleboro**—School—Bd. Educ. let contract building 2 story, 57 x 106 ft., brick, steel and concrete addition to Bliss School, concrete foundation, wood flooring, to E. O. Dexter, Attleboro. About $100,000. Noted July 24.

SEWERS—WESTMONT, N. J.

Bids were received by city, July 22, (lowest 3) for constructing 9 mi. sanitary sewerage system and disposal plant and pumping station, from (A) W. P. Corson, 1141 Sycamore St., Camden, (awarded contract); (B) Penn Eng. & Constr. Co., 1119 North Howard St., Phila.; (C) B. Pizzimenti, Pitman. The unit bids were as follows:

	A	B	C
Section "A" Sewers and Appurtenances:			
538 lin.ft. 8-in. t.c. pipe, 0–4 ft. deep	$0.81	$0.95	$0.80
6,395 lin.ft. 8-in. t.c. pipe, 4–6 ft. deep	.89	1.00	1.10
24,712 lin.ft. 8-in. t.c. pipe, 6–8 ft. deep	1.07	1.04	1.40
408 lin.ft. 8-in. t.c. pipe, 8–10 ft. deep	1.84	1.87	2.40
943 lin.ft. 10-in. t.c. pipe 0–4 ft. deep	1.00	1.00	1.00
654 linft. 10-in. t.c. pipe, 4–6 ft. deep	1.19	1.55	1.25
1,622 linft. 10-in. t.c. pipe, 6–8 ft. deep	1.47	1.65	1.50
767 lin.ft. 12-in. t.c. pipe, 0–4 ft. deep	1.19	1.10	1.10
906 lin.ft. 12-in. t.c. pipe, 4–6 ft. deep	1.37	1.25	1.50
227 lin.ft. 12-in. t.c. pipe, 6–8 ft. deep	1.90	1.62	2.00
155 lin.ft. 12-in. t.c. pipe, 8–10 ft. deep	2.29	2.50	2.50
60 linft. 8-in. c.i. pipe, 4–6 ft. deep	10.00	10.00	3.00
60 lin ft. 8-in. c.i. pipe, 6–8 ft. deep	13.00	12.00	4.00
60 lin ft. 8-in. c.i. pipe, 8–10 ft. deep	13.00	12.00	5.00
252 lin.ft. 10-in. c.i. pipe outfall	10.00	8.00	6.00
63 lin.ft. 6x5 in. "Y" branches	.75	.75	.80
862 lin.ft. 8x5 in. "Y" branches	1.00	.90	1.00
42 lin.ft. 10x5 in. "Y" branches	1.25	1.25	1.25
24 lin.ft. 12x5 in. "Y" branches	1.50	1.50	1.50
5,375 lin.ft. 5-in. t.c. pipe house connections	.75	.65	.70
50 vertical ft. 5-in. t.c. pipe, house connections (deep)	2.00	1.00	1.00
10 manholes, 0–4 ft. deep	45.00	55.00	50.00
36 manholes, 4–6 ft. deep	55.00	65.00	60.00
79 manholes, 6–8 ft. deep	70.00	75.00	75.00
3 manholes, 8–10 ft. deep	100.00	100.00	100.00
4 flush tanks, type "A"	225.00	225.00	250.00
12 flush tanks, type "B"	150.00	155.00	175.00
1 flush tank, type "B-B"	125.00	155.00	160.00
2 flush tanks, type "C"	125.00	175.00	170.00
5 lampholes	20.00	15.00	20.00
65 manhole buckets	5.00	6.00	5.00
500 lin.ft. 5-in. t.c. pipe (class B joints)	.07	.10	.15
200 lin.ft. 6-in. t.c. pipe (class B joints)	.09	.12	.20
2,500 lin.ft. 8-in. t.c. pipe (class B joints)	.12	.14	.30
600 lin.ft. 10-in. t.c. pipe (class B joints)	.15	.18	.35
300 lin.ft. 12-in. t.c. pipe (class B joints)	.20	.22	.40
17 vertical ft. drop pipe	3.00	4.00	5.00
3,000 b.m. 2x8 in. rough hemlock or pine	70.00	77.00	80.00
Section "A" sub-total No. 1	$62,691	$63,777	$71,754
Haddon Avenue Sewer:			
260 lin.ft. 8-in. t.c. pipe, 4–6 ft. deep	1.00	1.30	.90
3,209 lin.ft. 8-in. t.c. pipe, 6–8 ft. deep	1.20	1.44	1.00
108 lin.ft. 8-in. t.c. pipe, 8–10 ft. deep	.89	2.30	1.50
19 8x5 in. Y's	1.00	.90	1.00
1,035 lin ft. 5-in. t.c. pipe	1.00	.80	.70
1 manhole, 4–6 ft.	70.00	70.00	50.00
9 manholes, 6–8 ft.	100.00	90.00	65.00
3 flush tanks, type "B"	150.00	155.00	16.00
890 sq.yd. bituminous paving	2.00	2.60	2.00
Haddon Ave. sewer sub-total No. 2	$8,669	$9,801	$7,985
Rear of Haddon Avenue Sewer:			
1,250 lin ft. 6-in. t.c. pipe, 0-4 ft. deep	.73	.95	.80
1,582 lin ft. 6-in. t.c. pipe, 4-6 ft. deep	.80	1.00	.90
317 lin ft. 6-in. t.c. pipe, 6-8 in. deep	.95	1.34	1.00
165 lin.ft. 8-in. t.c. pipe, 0-4 ft. deep	.81	1.00	.85
311 lin.ft. 8-in. t.c. pipe, 4-6 ft. deep	.89	1.18	.95
220 lin.ft. 8-in. t.c. pipe, 6–8 ft. deep	1.07	1.40	1.05
Rear of Haddon Avenue sewer sub-total No. 3	$3,125	$4,009	$3,408
Force Main Alternative Bid:			
1,300 lin ft. 6-in. c.i. pipe sub-total No. 4	$3,705.00	$3,900.00	$1,820.00
1,300 lin.ft. 6-in. wood pipe, sub-total No. 5	2,600.00	4,810.00	1,300.00
Section "B" Disposal Plant and Pumping Station:			
Disposal plant	$18,923.31	$21,600	$19,250
Pumping station	7,361.00	8,900	7,250
Total for section "B"	$26,284	$30,500	$26,500

★**Mass., Pittsfield**—School—Bd. Educ. let contract building 10 room school, to E. C. Carlson & Co., 310 Main St., Springfield. About $125,220. Noted June 5.

★**Conn., East Hartford** (Hartford P. O.)—High School—Town let contract for completing unfinished rooms in new High School on Chapman St., including gymnasium, classrooms and auditorium, to L. A. Miller, 22 Church St., Meriden. About $50,000. Noted July 17.

★**Conn., Norwich** — Hospital — Norwich Hospital for Insane let contract constructing ward building, to H. Wales Lines Co., 134 State St., Meriden; 2 story, 60 x 120 ft. tuberculosis building, to Peck, McWilliams & Co., 47 West Main St. About $240,000. Noted June 12.

★**Conn., Warehouse Point**—Home—Hartford Co. Home, Hartford, let contract building addition including new school, hospital, heating plant and dormitory, brick, concrete foundation here, to A. H. Tryon, 847 Main St., Hartford. About $200,000. Noted July 17.

★**N. Y., Long Island City**—Studio—L. J. Selznick, 729 7th Ave., New York City, let contract building 200 x 600 ft. rein.-con. and steel, rein.-con. flooring, concrete foundation, on Queens Blvd., Van Alst, Ely and Moore Sts., to Fleischmann Constr. Co., 531 7th Ave., New York City. About $1,500,000. Cost plus percentage basis.

Buildings (Continued)

★**N. Y., New York** — Auditorium — Mt. Sinai Hospital, 100th St. and Madison Ave., let contract building 2 story, 100 x 120 ft., brick, steel and stone, brick foundation, to Cauldwell-Wingate, 281 4th Ave. About $150,000. Noted June 5.

★**N. Y., New York**—Bank—Natl. Park Bank, 214 Bway., let contract building brick, stone and steel addition, brick foundation, at 149 Fulton St., to M. Eidlitz, 30 East 42nd St. About $80,000. Noted May 22.

★**N. Y., New York**—Hotel—Twenty-two East 70th St. Corp., 206 Bway., let contract building 13 story, 55 x 100 ft. brick, steel and stone, brick foundation, at 850 Madison Ave., to Harvey, Abroms & Melius, 15 East 40th St. About $500,000.

★**N. Y., New York**—Hotel—Sixty West 68th St., Corp., Inc., 300 8th Ave., will build 11 story, 80 x 85 ft. brick and steel, brick foundation. About $450,000. Work will be done by day labor.

★**N. Y., New York**—Office—Post & Flagg, 28 Wall St., let contract building 6 story, 50 x 100 ft., brick, steel and stone, brick foundation, at 49-51 Broad St., to Cauldwell-Wingate, 281 4th Ave. Noted July 17.

★**N. Y., New York**—Store and Loft—L. M. Gerry, Newport, R. I., will alter 12 story, 55 x 210 ft., brick and steel, at 1115-1117 Bway., here. About $75,000. Work will be done by day labor.

★**N. Y., Syracuse**—Church—University Methodist congregation let contract building 1 story, 63 x 112 ft., brick, rein.-con. and steel, rein.-con. flooring, brick and rock foundation, on East Genesee St., to E. K. Fenno, 204 North Beech St. About $175,000.

N. Y., Utica—Hospital—State Hospital Comn., Capitol, Albany, received bids building 3 story, 40 x 206 ft. acute patients' hospital, with 35 x 58 ft. wings, and 3 story chronic patients' hospital with 41 x 83 ft. wings, both brick and rein.-con., for Utica State Hospital, Marcy Division, here, general contract, from Warren, Moore & Co., Wards Island, $857,565, W. F. Martens, Cutler Bldg., Rochester, $938,000, M. Kantrowitz, 20½ Market St., Albany, $942,388; heating, from Globe Automatic Sprinkler Co., Cahill Bldg., Syracuse, $88,600, J. W. Danforth Co., 70 Ellicott Sq., Buffalo, $92,590, H. C. Petersen Co., Inc., 20 Oneida St., $93,925; sanitary work, from H. C. Petersen Co., Inc., 20 Oneida St., $66,842, C. H. Darmstadt, Inc., 352 West 43rd St., New York City, $71,897, E. Joy Co., 133 Market St., Syracuse, $74,983; electric work, from C. H. Darmstadt, Inc., 352 West 43rd St., New York City, $20,789, G. E. Eng. Co., Inc., 417 Canal St., New York City, $21,520; Wheeler Green Electric Co., 31 St. Paul St., Rochester, $21,545. Noted July 3.

★**N. Y., White Plains**—School—Bd. Educ. let contract building P. S. No. 8, brick and steel, brick foundation, on Post Rd., to J. Nault, 106 Main St. About $85,000.

★**N. J., Newark**—Theatre—Fabian, Zucker, Steiner & Co., New York City, let contract building 1 story, 148 x 175 ft., rein.-con., brick and steel, on Branford Pl., here, to Gunn & Van Dale Co., 31 Clinton St. About $900,000. Noted March 6.

★**N. J., Plainfield**—School—Bd. Educ. let contract building 2½ story, 55 x 150 ft., brick and steel, brick foundation, to Stewart Willey Co., 1123 Bway., New York City. About $140,000. Noted Aug. 7.

★**N. J., Verona** (Montclair P. O.)—Hospital—Comrs. Essex Co. (Newark) let contract building 3 story, concrete and steel hospital with five 1 story pavilions, in Orange Mountains, here, to W. G. Shawell & Co., Cadwell, $415,818. Noted June 12.

★**Pa., Pittsburgh** — School — Carnegie Technical Schools, 5128 Woodlawn Ave., let contract building 2 story, steel and brick addition, to Mellon-Stuart Co., Oliver Bldg. About $125,000.

★**Md., Baltimore** — Church — A. W. Wilson Memorial Methodist Episcopal congregation let contract building 1 story, 50 x 80 ft., rein.-con., marble and brick, concrete foundation, on Charles St. and University Parkway, to D. M. Andrews Co., Mt. Vernon and 26th Sts. About $200,000.

★**Md., Baltimore**—Parish House and Manse—Forest Park Presbyterian congregation, 3714 Springdale Ave., let contract building 2 story, 40 x 75 ft., stone, marble and brick, concrete and rock foundation, on Dalrymple and Garrison Aves., to C. W. Littleton & Son, 4313 Liberty Heights Ave. About $50,000. Noted June 12.

★**Md., Chestertown**—Bank—Third Natl. Bank, Baltimore and St. Paul Sts., let contract building 1 story, 38 x 72 ft., brick, granite and stone, tile flooring, stone foundation, to Ballinger & Perrot, 17th and Arch Sts., Phila. About $60,000.

★**O., Cleveland**—Office—Colburn Machine Co., 1040 Ivanhoe Rd., let contract building 1 story, 44 x 78 ft., rein.-con., steel and brick, to Hunkin Conkey Co., Century Bldg. About $80,000. Noted July 31.

★**O., Cleveland**—Office—Natl. Malleable Castings Co., 7706 Platt Ave., let contract building 6 story, 50 x 208 ft., rein.-con., steel and brick, on Quincy St. and Woodhill Rd., to Crowell-Lundoff Little Co., Meriam Bldg. About $300,000.

★**O., Columbus** — Salesroom — See "Industrial Works."

★**O., Dayton**—Salesrooms—See "Industrial Works."

★**Mich., Detroit**—Commercial and Hotel—H. Chalmers, 275 Iroquois Ave., let contract building 3 story, 90 x 226 ft., rein.-con., steel and brick, on Woodward and Parsons St., also 2 story, 95 x 200 ft. rein.-con., steel and brick, on Woodward and Watsons Sts., to F. H. Goddard, 516 Franklin St. About $175,000 and $150,000 respectively.

★**Mich., Detroit**—Hotel—W. S. Barr, c/o Baxter, O'Dell & Halpin, archts., 1024 Hammond Bldg., let contract building 4 story, brick and steel, wood flooring, to W. S. Pocock, 914 Hammond Bldg. About $125,000. Noted June 12.

★**Ill., Pana**—Greenhouses—W. A. Ameling, Maywood, let contract building system of greenhouses here, timber, brick and glass, to Pana Greenhouse Co., Pana. About $100,000.

★**Ia., Sioux City**—Store and School—Davidson Realty Co. will build 4 story, 95 x 150 ft. About $100,000. Work will be done by day labor.

★**Minn., Aurora** — High School — School Dist. No. 13 let contract building 3 story, rein.-con., brick and steel, rein.-con. flooring, to A. C. Thomas-Guthrie Constr. Co., Guardian Life Bldg., St. Paul, $430,700. Noted July 17.

★**Minn., Duluth**—Office—See "Industrial Works."

★**Minn., Morris**—Dormitory—State Bd. Control, Capitol, St. Paul, let general contract building 2 story, 45 x 120 ft., at State Farm, here, to H. J. Frandsen, 510 Rice St., St. Paul, $54,000. Noted July 17.

★**Minn., St. Paul**—Hospital—Northern Pacific Beneficial Assn., 203 R.R. Bldg., let contract building 3 story, 80 x 280 ft., hospital and power plant, on Snelling and University Aves., to J. and W. A. Elliott, 906 Lumber Exch. Bldg., Minneapolis. About $200,000. Noted June 26.

★**Kan., Arkansas**—Church—Central Christian congregation let contract building 2 story, 66 x 114 ft., brick, to E. Staedelin & Son, Milford, Okla., $90,740.

★**Kan., Arkansas City**—Hotel—Arkansas Hotel Co. let contract building 5 story, 75 x 132 ft. rein. con., steel and brick, rein.-con. flooring, concrete foundation, to Swenson Constr. Co., 11th and Oak Sts., Kansas City, Mo. About $200,000. Noted Aug. 7.

★**Kan., Ft. Dodge**—Home—R. S. Gamble, state archt., Topeka, let contract building 1 and 2 story, 67 x 166 ft. with 40 x 51 ft. wing, rein.-con., brick, rein.-con. flooring, concrete foundation, to M. J. Green Manhattan, $74,895. Noted July 31.

★**Kan., Wichita**—School—Bd. Educ. let contract building Emerson School, 3 story, 36 x 98 x 98 ft., rein.-con., steel and brick, rein.-con. flooring, to H. J. Ellis Constr. Co., North St. and Francis Ave., $74,488.

★**Neb., Lincoln**—School—School Dist. let general contract building 2 story, 73 x 138 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation, on 33rd and Vine Sts., to F. Young, 24th and Holdrege Sts., $74,890; plumbing, to Newberg & Bookstrom, Lincoln, $25,995. Noted July 10.

★**Mo., St. Louis**—Store—Stix, Baer & Fuller Dry Goods Co., 7th and Washington Sts., let contract building 3 story, 90 x 226 ft., rein.-con., steel and brick addition, rock foundation, at 616-24 Lucas St., to Westlake Constr. Co., 717 Locust St. About $50,000.

★**Tex., Dallas** — Bank — Federal Reserve Bank, Commerce and Martin Sts., let contract building 5 story, brick, steel and stone, stone foundation, to G. A. Fuller, 949 Bway., New York City. About $500,000. Noted May 29.

★**Okla., Langston**—Dormitory—State Bd. Educ., Oklahoma, let contract building 2 story, 40 x 180 ft., brick, at Negro Agricultural and Normal University, here, to J. J. Rooney, 318 West Okmulgee St., Muskogee. About $50,000.

★**Okla., McAlester** — Temple — Masonic Order let contract building 3 story, 140 x 180 ft., brick and concrete, on Main St., to G. H. Deibler and J. DeFlorin, McAlester. About $250,000.

★**Okla., Norman**—Dormitory—Bd. Pub. Affairs, Oklahoma, let contract building 3 story rein.-con., steel and brick, rein.-con. flooring, concrete foundation, to Manhattan Constr. Co., 3rd and Fondulac Sts., Muskogee. About $157,500. Noted Aug. 7.

★**Okla., Okmulgee**—Club—Country Club let contract building 2 story, to E. S. Winn Constr. Co., Kansas City, Mo. About $65,000.

★**Okla., Okmulgee**—Hotel—Jennings & Post let general contract building 3 story, 75 x 100 ft. to Patti-Moore Constr. Co., Okmulgee. About $75,000.

★**Okla., Tulsa**—College—Kendall College let contract building 3 story, 39 x 227 ft. brick and concrete, on Kendall St., to A. T. Hingle, Tulsa. About $96,000.

★**Okla., Vinita**—Court House—Comrs. Craig Co. let contract building 3 story, 75 x 100 ft. brick, to Manhattan Constr. Co., 3rd and Fondulac Sts., Muskogee. About $147,000. Noted July 17.

★**Idaho, Moscow**—Bank—First Trust and Savings Bank let contract building 1 story, 40 x 75 ft., to A. Moorman & Co., St. Paul, Minn. About $55,000.

★**Wash., Grand Mound**—Cottages—State Bd. Control, Olympia, let contract building two 2 story, concrete and brick, here, to J. Lohrenz, South 1224 Maple St., Spokane, $115,087.

★**Wash., Olympia**—Club—B. P. O. E. Bldg. Comn. let contract building 3 story, concrete and brick, on Main St., to Knoll Bros., Olympia. Elks Bldg. Com. will supervise work. A. H. Christopher, chm. About $85,000. Noted July 24.

★**Wash., Orting**—Barracks, etc.—State Bd. Control, Olympia, let contract building barracks and warehouse on state grounds, for Soldier's Home, to W. E. Lance, 216 Pontius St., Seattle, $75,927. Noted June 12.

★**Wash., Pullman** — Dormitory — Washington State College let contract building 3 story, 32 x 60 ft., with one 30 x 100 ft. and one 30 x 80 ft. wings, to F. E. Peterson, Old Natl. Bank Bldg., Spokane, $111,432.

★**Cal., Fruitvale** — Hospital — California Memorial Hospital Corp., Monadnock Bldg., San Francisco, will construct group of hospital buildings, here. About $100,000. Work will be done by day labor.

★**Cal., Vallejo** — Hotel — Admiral Hotel Co., Inc., 808 Mechanics Institute Bldg., San Francisco, let contract building 6 story, 80 x 130 ft., rein.-con. and brick, concrete foundation; on Virginia and Sonoma Sts., to McDonald & Kahn, Rialto Bldg., San Francisco. About $250,000.

★**N. S., Halifax**—Naval—Navy League of Canada, Halifax, let contract building 4 story, 82 x 110 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on Barrington and Smith Sts., to S. M. Brookfield, Halifax. About $292,000.

N. B., Moncton—Office—See "Miscellaneous."

★**Ont., Ottawa**—Store—A. W. Horwood, archt., Castle Bldg., Queen St., let contract to W. G. Adamson, 126 Sparks St., building 3 or 5 story, 60 x 10 ft. rein.-con. and brick, rein.-con. flooring, on George St., for A. J. Freiman, Rideau St. Cost between $60,000 and $80,000. Noted July 31.

★**B. C., Point Grey**—School—School Bd. rescinded contract let to Adkison & Dill, 707 Welton Bldg., Vancouver, building 3 story, rein.-con. and brick, concrete foundation, on Ash and Tupper Sts., Shaughnessy Dist., and relet same to Baynes & Horie, 836 Howe St., Vancouver. About $80,000. Noted July 24.

Federal Government Work

PROPOSED WORK

Mass., Chatham—Gutters and Roofing—Spec. 4022—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build gutters and roofing for hangars, here. About $4000.

N. Y., New York—Turbo Air Compressor—Spec. 4016—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install, here. About $60,000.

Federal Government Work (Continued)

N. Y., Rockaway—Gutters and Roofing—Spec. 4022—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build gutters and roofing for hangars, here. About $4000.

N. Y., Rockaway—Heating Hangar—Spec. 4021—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install, here. About $7000.

N. J., Cape May—Gutters and Roofing—Spec. 4022—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build gutters and roofing for hangars, here. About $4000.

D. C., Wash.—Mechanical Equipment and Piping — Spec. 3708 — Bureau of Yards & Docks, Navy Dept., plans to install mechanical equipment and piping in boiler plant, here. About $200,000.

D. C., Wash.—Sewers—Dist. Comrs., Dist. Bldg., rejected bids received Aug. 4, building sewer in Illinois Ave. Noted Aug. 7.

D. C., Wash.—Timber Work—Spec. 4015—Bureau Yards & Docks, Navy Dept., plans to build timber work extension to quay wall. About $30,000.

Va., Hampton Roads—Gutters and Roofing—Spec. 4022—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build gutters and roofing for hangars, here. About $4000.

N. C., Wilmington—Officers' Quarters—Treas. Dept., Wash., D. C., rejected bids received July 15, building officers quarters at Marine Hospital, here. J. A. Wetmore, Wash., D. C., superv. archt. Noted July 24.

Fla., Pensacola—Removal of Pier—Spec. 4019—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to remove pier at Center Ave., here. Bids to be opened at local yard. About $6500.

La., New Orleans—Equipment—Spec. 3882, Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids for mechanical and electric equipment for power plant, here. About $115,000; $10 deposit required for plans and specifications. Noted May 8.

Mont., Bozeman—Road Work—Bureau Pub. Rds., U. S. Dept. Agriculture, Missoula, plans to grade 5 mi. West Gallatin-Moose Creek Rd., 16 ft. wide cost $20,000, 5 mi. West Gallatin-Swan Creek Rd., 16 ft. wide, $20,000. C. H. Purcell, Post Office Bldg., Portland, Ore., dist. engr.

Mont., Great Falls—Excavating—U. S. Recl. Serv. rejected bids received July 28, excavating canals for irrigation on Sun River project, involving 7200 cu.yd. excav. About $10,000. G. O. Sanford, Ft. Shaw, engr.

Mont., Great Falls—Road Work—Bureau Pub. Rds., Missoula, plans to build 10 mi. Riceville-Monarch Rd. through Sluice Box Canyon, here. About $10,000. C. H. Purcell, Post Office Bldg., Portland, dist. engr.

Tex., Pittsburg — Post Office — Treas. Dept., Wash., D. C., rejected bids received July 8, building, here. J. A. Wetmore, Wash., D. C., superv. archt. Noted July 17.

N. M., Portsmouth—Turbo Generator—Spec. 4017—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install 1000 kw. turbo generator, here. About $17,000.

Wash., Newport—Road Work—Bureau Pub. Rd., Missoula, Mont., receives bids about Aug. 20, clearing, grading and building drainage structures on 11.8 mi. Metaline Natl. Forest Rd., 12 ft. wide, Pend O'Reille Co., involving 39,000 cu.yd. earth and 5700 cu.yd. rock excav., 270 lin.ft. pile trestles, 1550 lin.ft. log culverts, etc. About $90,000. C. H. Purcell, Post Office Bldg., Portland, dist. engr. Noted Apr. 10.

Cal., Mare Island—Turbo Generators—Spec. 4018—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install 4000 kw. turbo generators, here. About $45,000.

BIDS DESIRED

D. C., Wash.—Fuel Oil—Until Aug. 25, by A. L. Flint, genl. purch. agt.; Panama Canal, Wash., D. C., furnishing and delivering by steam, free of all charges, 300,000 bbl. fuel oil, domestic production, at Cristobal and 700,000 bbl. at Balboa.

S. C., Charleston—Quay Wall—Spec. 3773—Until Aug. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here. About $150,000; $10 deposit required for plans and specifications. Noted Jan. 23.

Ia., Carroll—Post Office—Until Sept. 8, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building here.

BRIDGE—WATERTOWN, N. Y.

Bids were received by city for constructing bridge over Black River on Pearl St. Sect. "A", from (A) Walsh Constr. Co., Davenport, Ia., (B) Peckham Constr. Co., Niagara Life Bldg., Buffalo, (C) Scott Bros., Arlington Blk., Rome; Sect "B", (A) Peckham Constr. Co., (B) Walsh Constr. Co., (C) Scott Bros.; Sect "C", river arch and lower deck only, (A) Walsh Constr. Co., (B) Peckham Constr. Co., (C) Scott Bros. The unit bids were as follows:

SECTION "A"	A	B	C
1,140 cu.yd. concrete, grade "A" arch ribs	$33.00	$32.50	$37.40
1,106 cu.yd. concrete, grade "A" floors, girders, etc.	23.00	31.50	37.40
285 cu.yd. concrete, grade "B" trans. walls and columns	22.00	31.50	36.00
328 cu.yd. concrete, grade "B" retaining walls	18.00	21.00	26.00
430 cu.yd. concrete, grade "B" pavement base	17.00	11.00	14.00
1,875 cu.yd. concrete, grade "C" abutments and footings	16.00	10.70	16.00
359,786 lb. steel reinforcing bars	.05	.052	.06
420 cu.yd. excavation, earth	1.50	2.25	1.50
460 cu.yd. excavation, rock	4.00	10.00	5.00
51 cu.yd. sand-clay cushion, above floor slabs	2.00	2.20	3.00
4,736 cu.yd. filling, approaches	2.00	1.60	2.00
145 cu.yd. ballast under trolley tracks	4.50	4.95	3.75
3,874 cu.yd. brick pavement and cushion	4.00	4.30	3.00
988.42 lin.ft. parapet walls	4.50	4.50	3.00
1,253 lin.ft. curb on fill	1.00	.95	.85
5,790 sq.ft. sidewalk on fill	.35	.40	.42
1,710 sq.yd. waterproofing, two-ply	.60	1.85	2.80
463 sq.yd. waterproofing, one-ply	.40	1.15	1.65
10 pieces lamp posts	150.00	28.00	42.00
6 pieces trolley poles	100.00	50.00	55.00
2 pieces combination lamp and trolley poles	150.00	96.00	72.00
870 lin.ft. 1-in. metal conduit	.25	.45	.24
480 lin.ft. ¾-in. metal conduit	.20	.34	.22
77 lin.ft. ½-in. metal conduit	.15	.29	.19
72 pieces junction and outlet boxes	2.00	2.60	2.40
16 pieces c. i. handhole frames and covers	25.00	5.00	6.00
32 pieces catch basins and track drains	35.00	44.00	22.80
4 pieces drainage screens	35.00	10.00	4.80
240 lin.ft. drainage line	1.50	1.00	2.00
Cofferdam for river arch abutments (lump sum)	4,000.00	1,400.00	5,000.00
Extended totals	$176,551	$178,221	$202,883

SECTION "B"	A	B	C
328 cu.yd. concrete, grade "A" railroad arch	$26.00	$22.00	$37.40
747 cu.yd. concrete, grade "A" floors, girders, etc.	31.00	21.00	37.40
113 cu.yd. concrete, grade "B" columns	25.50	20.00	2[illegible].40
875 cu.yd. concrete, grade "B" retaining walls	19.00	18.00	20.00
529 cu.yd. concrete, grade "B" pavement base	11.00	17.00	14.00
3,147 cu.yd. concrete, grade "C" abutments and footings	10.70	16.00	16.00
167,929 lb. steel reinforcing bars	.052	.05	.06
1,593 cu.yd. excavation, earth	2.25	1.50	1.50
27 cu.yd. sand clay cushion, above floor slabs	2.20	2.00	3.00
11,618 cu.yd. filling, over arch and in approaches	1.60	2.00	2.00
268 cu.yd. ballast under trolley tracks	4.95	4.50	3.75
4,071 sq.yd. brick pavement and cushion	4.30	4.00	3.00
853.28 lin.ft. parapet walls	4.50	4.50	3.00
1,835 lin.ft. curb on fill	.95	1.00	.85
8,993 sq.ft. sidewalk on fill	.45	.35	.42
1,453 sq.yd. waterproofing, two-ply	1.85	.60	2.80
667 sq.yd. waterproofing, one-ply	1.15	.40	1.65
14 pieces lamp posts	28.00	150.00	42.00
8 pieces trolley poles	50.00	100.00	55.00
1 piece combination lamp and trolley poles	96.00	150.00	72.00
1,108 lin.ft. 1-in. metal conduit	.45	.25	.24
268 lin.ft. ¾-in. metal conduit	.34	.20	.22
47 lin.ft. ½-in. metal conduit	.29	.15	.19
43 pieces junction and outlet boxes	2.60	2.00	2.40
18 pieces c.-i. handhole frames and covers	5.00	25.00	6.00
10 pieces catch basins and track drains	44.00	35.00	22.80
75 lin.ft. drainage line	1.00	1.50	2.00
Stairway—West side	800.00	1,500.00	1,750.00
Stairway—East side	600.00	750.00	980.00
Steps Massey Street to jail	200.00	50.00	200.00
130 lin.ft. iron fence, rebuilt	1.70	7.00	2.00
Extended totals	$157,594	$169,381	$185,612

SECTION "C"	A	B	C
1,140 cu.yd. concrete grade "A"—arch ribs	$33.00	$34.00	$42.00
464 cu.yd. concrete grade "A"—floors, girders, etc.	23.00	33.00	42.00
197 cu.yd. concrete, grade "B"—retaining walls	18.00	23.00	25.00
1,456 cu.yd. concrete, grade "C" abutments and footings	16.00	12.00	20.00
269,598 lb. steel reinforcing bars	.05	.06	.06
50 cu.yd. excavation, earth	1.50	2.50	1.50
460 cu.yd. excavation, rock	4.00	10.00	5.00
3,400 cu.yd. filling, approaches	2.00	1.70	2.00
524 sq.yd. brick pavement and cushion	4.00	4.40	3.00
411.5 lin.ft. parapet walls	4.50	4.70	3.00
571 sq.yd. waterproofing, two-ply	.60	1.90	2.80
256 sq.yd. waterproofing, one-ply	.40	1.20	1.65
20 lin.ft. ½-in. metal conduit	.15	.35	.19
4 pieces junction and outlet boxes	2.00	2.70	2.40
20 pieces catch basins	35.00	50.00	22.80
4 pieces drainage screens	35.00	10.00	4.80
130 lin.ft. drainage line	1.50	1.00	2.00
Cofferdam for river arch abutments (lump sum)	4,000.00	1,500.00	5,000.00
Extended totals	$106,768	$111,075	$137,340

Minn., Montevideo—Post Office—Until Sept. 5, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building, here. Former bids rejected. Noted July 17.

Kan., North Topeka—Post Office—Until Sept. 18, by J. A. Wetmore, superv. archt., treas. dept., Wash. D. C., building, here.

Cal., Mare Island—Completing Structural Shop—Spec. 3719—Until Aug. 20, by Bureau Yards & Docks, Navy Dept., Wash., D. C., completing structural shop, here. About $130,000; $10 deposit required for plans and spec. Noted Dec. 12.

Cal., Mare Island—Electric Lighting and Power Systems, Spec. 3982—Until Aug. 27, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing here. About $25,000; $10 deposit required for plans and specifications.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., New London**—Distributing System—Spec. 3989—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing distributing system, here, to Lord Constr. Co., 105 West 40th St., New York City, $248,319, (180 days). Noted Aug. 7.

★**N. Y., New York**—Garage—Spec. 3873—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building garage at Medical Supply Base, here, to Caye Constr. Co., 299 Broadway, $61,200 (140 days.) Noted Aug. 7.

N. J., Lakehurst—Hangar—Spec. 4001—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Aug. 6, building 1 dirigible hangar at Naval Air Sta., here, (1) work complete, from

Federal Government Work (Continued)

Irwin & Leighton, 126 North 12th St., Phila., Pa., (1) $2,747,000 (360 days), (4) add $156,000, (5) add $115,000, (6) add $30, deduct $15; (7) add $50, deduct $18, (8) add $1, deduct $25, (9) add $2, deduct $0.65, (10) $323,000, (12) add $45, deduct $20, (13) add $2, deduct $1.

G. F. Pawling, 1432 South Penn. Sq., Phila., Pa., (1) $2,854,000, (360 days), (2) add $131,000, (3) add $144,200, (4) add $250,000, (100 days), (5) add $220,000, (60 days), (6) add $30, deduct $19, (7) add $75, deduct $20, (8) add $1.15, deduct $0.06, (9) add $2.90, deduct $0.75, (10) $350,000, (12) $19, (13) $3.50, (4) deduct $125,000.

Warren-Moore Colonial Trust Bldg., Phila., Pa., (1) $2,917,407, (360 days), (4) add $241,314, (5) add $171,432, (6) add 23, deduct $15, (7) add $2.75, deduct $0.50 (8) add $0.95, deduct $10, (9) add $60, deduct $30, (10) deduct $313,560.

Lord Electric Co., 105 West 40th St., New York City, (11) $317,247, (240 days).

Baker Smith & Co., 576 Greenwich St., New York City, (11) $328,989 (210 days).

Riggs Distler & Stringer, 260 North Calvert St., Baltimore, Md., $349,997, (210 days). Noted July 31.

★**Md., Annapolis**—Garage—Spec. 3988—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building garage, here, to King Lumber Co. Charlottesville Va., $29,058, (120 days). Noted Aug. 7.

★**Md., Baltimore**—Dredging—U. S. Engr. Office, Custom House, let contract dredging channel to Curtis Bay, to Sanford & Brooks Co., Commerce St., $0.27 per cu.yd. Work involves 950,000 cu.yd. scow measurement with over depth dredging of 174,000 cu.yd. Noted July 31.

D. C., Wash.—Paving—Dist. Comrs., Dist. Bldg., received bids Aug. 6, paving streets and avenues, (1) laying standard asphalt (2½ in. surface, 2 in. binder before compression) on 6 in. concrete base, (a) natural pitch, Lake asphalt, (b) reduced oil asphalt; (2) laying vitr. block on 6 in. concrete; (3) laying standard asphalt; (2½ in. asphalt surface, 2 in. binder, before compression) on 5 in. concrete base, (a) natural pitch lake asphalt, (b) reduced oil asphalt; (4) laying vitr. block on 5 in. concrete base, from

Eastern Paving Co., Colonial Trust Bldg., Phila., Pa., (1b) $3.07 per sq.yd., (2) $2.97, (3b) 6 in., $2.97, (4b) 5 in. $2.89.

Cranford Paving Co., Union Trust Bldg., (1a) $3.15, per sq.yd., (1b) $2.96, (2) $3.25, (3a) 5 in. $3, (3b) $2.82, (4) 5 in. $3.10.

★**D. C., Wash.**—Plumbing—Treas. Dept. let contract changing plumbing in Interior Dept. Bldg. to Nolan Bros., 1320 New York Ave., $4670.

★**D. C., Wash.**—Sewers—Dist. Comrs., Dist. Bldg., let contract building 9th and 12th Sts. relief sewers, to W. F. Brenizer, 101 New York Ave., N. E.; Minnesota Ave. and Upper Piney branch sewer, to G. Hyman, West Virginia Ave. and Morse St., N. E. Noted Aug. 7.

★**Fla., Jacksonville**—Dredging and Rock Removal—W. J. Bardin, engr., Jacksonville, let contract dredging and removing rock in Drummond Creek Cut, Johns River, to P. S. Ross, 75 Johnson Ave., Jersey City, N. J., $5.78 per cu.yd. Work involves 18,207 cu.yd. excav. Noted July 10.

Mich., Saulte Ste. Marie—Dredging—U. S. Engr. Office, Detroit, received bids July 22, dredging Grosse Pointe Channel, Lake St. Clair, involving 850,000 cu.yd. floating dredgwork with allowable over-depth amounting to 400,000 cu.yd. sand and clay, from Great Lakes Dredge & Dock Co., 104 South Michigan Ave., Chicago, Ill., $0.185 per cu.yd.; Fitzsimmons & Connell Dredge & Dock Co., 10 South La Salle St., Chicago, Ill., $0.24 per cu.yd.; Greiling Bros. Co., 124 North Adams St., Green Bay, Wis., $0.24 per cu.yd. Noted June 26.

Oregon—Road Work—Bureau Pub. Rds., 628 Post Office Bldg., received bids grading, grubbing and building concrete culverts (1) 6 mi. Sect. 1 (2) 6 mi. Sect. 2 Lake Crescent Sect. Olympic National Forest Rd., (a) 360 days, (b) 180 days, from Ericson Constr. Co., (1a) $137,823, (1b) $144,714, (2a) $116,765, (2b) $122,602; Rojette, Fobett & Winters, Seattle, Wash., (1a) $158,754, (1b) $174,473; J. Hampshire, Grants Pass, (1a) $143,261; Grant Smith Co., 275 Pine St., (1b) $130,103, (2c) $123,392; Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, (2b) $208,961.

Ore., Portland — Road Work — Bureau Pub. Rds., U. S. Dept. of Agriculture, Portland, received bids grading, clearing, draining, etc., Zig Zag Sect. Mt. Hood Rd., involving 138 acres clearing, from Johnson Contg. Co., Lumber Exch. Bldg., $180,160; J. W. Sweeney, 728 McClay Bldg. $196,774; Pacific Bridge Co., foot of East Salmon St., $229,600. Noted Apr. 17.

Miscellaneous

PROPOSED WORK

Monument — New York, N. Y. — Bronx Chapter of Amer. Legion, c/o Starrett & Van Vleck, archts. and engrs., 8 West 40th St., having preliminary sketches made for 80 x 100 ft. brick, stone and marble monument, brick foundation. About $500,000.

Coal Trestle — Utica., N. Y. — C. F. Hanauer, 920 Canal St., purchasd site on Wheeler Ave. and Linden St. and plans to build rein.-con. and timber coal trestle, rein.-con. coal silos and conveying system. Cost between $20,000 and $25,000.

Swimming Pool — Belmar, N. J. — City council had plans prepared by C. B. Cook, archt., Asbury Park, for 50 x 150 ft., concrete and tile swimming pool at foot of 5th Ave. About $19,600.

Equipment, Machinery, etc.—Phila., Pa.—Dept. Health & Charities soon receives bids furnishing equipment for power house at Phila. Genl. Hospital, 34th and Pine Sts., including boilers, engines, piping and machinery. About $250,000. P. H. Johnson, 713 Sansom St., engr.

Retaining Wall—Pittsburgh, Pa.—City passed ordinance to rebuild retaining wall on Leander St., between Rust Way and westerly terminus thereof, rein.-con. N. S. Sprague, city engr.

Piers, Approaches, Bulkhead, Pier Equipment, Heating Plant, Cranes and Locomotives — Baltimore, Md. — See "Industrial Works."

Piers — Baltimore, Md. — Weyerhaeuser Timber Co., White Bldg., Tacoma, Wash., and 1015 Lexington Bldg., here, preparing plans for four, 120 x 580 ft., wood pile and timber piers on water front near Curtis Bay. About $100,000. W. E. Long, mgr. and engr. Noted Apr. 24 under "Industrial Works."

Piers — Baltimore, Md. — Baltimore & Eastern Shore Ferry Co., Inc., soon lets contract building 1200 ft., rein.-con. and timber pier, 35 ft. wide, including frame shed on each end, north of Bay Shore Park. Cost between $75,000 and $100,000. McLean Contg. Co., 1412 Fidelity Bldg., engrs.

Bulkhead—Eustis, Fla.—City voted $45,000 bonds to bulkhead on shores of Lake Eustis municipal pier and park.

Levee—Rayville, La.—Bd. State Engrs., 213 New Orleans Court Bldg., New Orleans, soon lets contract building Upper Leland Levee, involving 175,000 cu-yd. riverside enlargement; Carmicheal Levee, 25,000 cu.-yd. riverside enlargement. H. A. Mangham. secy.

Levee — Tallulah, La. — T. P. Kell, pres. Bd. Comrs., 5th Louisiana Levee Dist., at office State Engrs., New Orleans Court Bldg., New Orleans, soon lets contract cutting down and rebuilding present maintaining line and levee, false berme, etc., 65,000 cu.yd., Bourgere Levee in Concordia Parish.

Athletic Field—Detroit, Mich.—Masonic Athletic Assn., c/o G. W. Graves, archt., 43 John R St., having plans prepared improving 90 acre site for athletic field, to include swimming pools, grand stand, concrete drives and promenade, dock over Lake St. Clair, filling and preparing bathing beach and building concrete boat dock.

Retaining Wall—Grosse Pointe, Mich.—Village having preliminary surveys made by M. L. Brown & Son, engrs., 821 Chamber of Commerce Bldg., Detroit, for rein-con. retaining wall at St. Clair Lake. About $20,000. Noted May 15.

Rock Crusher — Foley, Minn. — Comrs. Benton Co. plan to purchase portable rock crusher with 20 ft. feeder and grill screen, equipped with Manganese die, (1) 9 x 16 in. jaw opening with 12-18 tons an hour capacity; (2) 11 x 20 in. jaw opening, 18-25 tons an hour capacity; J. E. Kasner, Suak Rapids, co. aud.

Cast Iron Pipe, Hydrants, Elbows, etc.—St. Cloud, Minn.—City soon lets contract furnishing 1644 lin.ft. 4 in. and 1340 lin.ft. 6 in. Class C bell and spigot type c.i. pipe, three 6 in. hydrants, one 4 in. gate and box, one 4 in. tee, one 6 in. gate and box, three 6 in. tees, two 4 in. radius elbows, etc. R. E. Borrowman, city engr.

Dam, Conduit, etc.—St. Paul, Minn.—See "Waterworks."

Dock—St. Louis, Mo.—C. E. Smith, city engr., soon receives bids building 900 ft. rein.-con. docks at foot North Market St. and Mississippi River, involving wet and dry excav. and wood piling. About $300,000.

Road Oil—St. Louis, Mo.—Bd. Aldermen appropriated $15,000 and passed ordinance to use receipts from gasoline tax, amounting to $300,000, to purchase road oil for use on streets and roads. J. E. Thomas, 317 City Hall, supply comr.

Parks—El Paso, Tex.—City plans election to vote on $100,000 bonds to build parks. W. C. Stewart, city engr.

Fire Alarm System—San Antonio, Tex.—City voted $150,000 bonds to install fire alarm system. H. Helland, city engr. Noted July 10.

Incinerator — San Antonio, Tex. — City voted $100,000 bonds to build incinerator. H. Helland, city engr. Noted July 10.

Parks—San Antonio, Tex.—City voted $200,000 bonds to build parks. H. Helland, city engr. Noted July 10.

River Improvements—San Antonio, Tex.—City voted $200,000 bonds for river improvements. H. Helland, city engr.

—Park — Albuquerque, N. M.—Bd. Pub. Wks. plans to build North Fourth St. Park, bounded by 3rd and 4th Sts., also Marble and State Ave. About $10,000 has been subscribed for project.

Lighting System — Logan, Utah — City had plans prepared by A. H. Chambers, engr., Logan, for 25 mi. ornamental street lighting system. About $30,000.

Safeguard Wall—Olympia, Wash.—Comrs. Thurston Co. soon let contract building concrete and rock safe-guard wall along Nisqually River from point 400 ft. south of Brown Bridge. Cost to exceed $10,000.

Cement—Astoria, Ore.—Port of Astoria rejected bids furnishing cement for Pier No. 3. Cost between $19,950 and $20,925. Noted June 26th under "Pier and Freight Shed."

Port Improvement—Astoria, Ore.—Port of Astoria sold $450,000 bonds to dredge and improve port. R. R. Bartlett, ch. engr.

Dredges—Marshfield, Ore.—Port of Coos Bay having plans prepared by A. Sengstacken, secy., for two 15 in. suction dredges, for dredging channel. About $15,000 and $50,000 respectively.

Cast Iron Pipe—Portland, Ore. — City soon lets contract furnishing 130 ton 12 in., 240 ton 8 in., and 130 ton 6 in. c.i. pipe. P. McIntosh, city purch. agt.

Dock—Portland, Ore — Emerson Hardware Co. plans to build import and export lumber docks, 250 ft. frontage and 600 ft. approach. About $20,000. C. B. Stetson, 730 Everett St., mgr.

Wharf—Oakland, Cal.—See "Industrial Works."

Breakwater and Wharf—Meteghan, N. S.—Dept. Pub. Wks., Ottawa, Ont., soon receives bids rebuilding breakwater and part of wharf, here. About $14,000. A. Lafleur, Ottawa, engr.

Wharf—Murray Bay, Que.—Dept. Pub. Wks., Ottawa, Ont., soon receives bids building wharf at St. Etienne de Malbaie, near here. About $12,000. A. Lafleur, Ottawa, engr.

Wharf — Graham, B. C. — Dept. Pub. Wks., Ottawa, Ont., soon receives bids building wharf, here. About $12,000. E. Lafleur, Ottawa, engr.

Wharf—Kincolith, B. C.—Dept. Pub. Wks., Ottawa, Ont., soon receives bids building wharf, here. About $12,000. E. Lafleur, Ottawa, engr.

BIDS DESIRED

Asphalt—Brooklyn, N. Y.—Until Aug. 20, by E. Riegelmann, boro. Pres., furnishing and delivering 150,000 gal. refined asphalt in liquid form and 50 ton of 2000 lb. each of refined asphalt in packages, 3500 bbl. Portland cement, 1000 ton limestone or other suitable inorganic dust, 400 cu.yd. paving gravel, 105,400 feet board measure of lumber, 100 ton paving pitch, 4000 cu.yd. asphalt sand, 1200 cu.yd. binder stone, and regulating and grading Vermont Ave. from Highland Blvd. to Bulwer Pl.

Heating, Etc. — Hudson, N. Y. — Until Aug. 22, by A. W. Allen, pres. bd. mgrs. New York State Training School for Girls, replacing underground steam and water mains and heating equipment in school here. L. F. Pilcher, Albany, state archt.; advertised in this issue.

Miscellaneous (Continued)

Cement—New York, N. Y.—Until Aug. 19, by H. Bruckner, pres Bronx Boro., furnishing and delivering 3000 bags Portland cement.

Garbage Incinerator—Syracuse, N. Y.—Until Aug. 25, by R. D. Roney, secy. bd. contr. and supply, building garbage incinerating plant on Hiawatha St. Noted Aug. 7.

Column Foundations—Philadelphia, Pa.—Until Aug. 26, by Dept. City Transit, 1211 Chestnut St., building 47 concrete column foundations for Frankford Elevated Ry., in Front St. near Arch St. and in Frankford Ave. between Dyre and Bridge Sts., including demolition of certain buildings at Front and Arch Sts., Contr. No. 564; construction of station platforms and shelters over these for Frankford Elevated Ry. at York and Dauphin Sts. and Girard Ave., including steel frame work and railing, rein.-con. platform floor, gutters, etc., Contr. No. 532. G. T. Atkinson, asst. dir.

Creosoted Wood Blocks—Baltimore, Md. Until Aug. 20, by Bd. Awards, c/o City Register, furnishing creosoted wood blocks. G. F. Weighardt, highways engr.; advertised in this issue.

Levee — Alexandria, La. — Until Sept. 15, by Bd. Comrs. Red River Atchafalaya & Bayou Levee Dist., improving 40,000 cu.-yd. Hudson Bayou; 90,000 cu.yd. Compton Lake to Bayou Latanier, Rapides Parish; 450,000 cu.yd. Bayou Rouge to Burton Lake; 800,000 cu.yd. Burton Lake to Darbonne Bay, St. Landry Parish. E. G. Richard, pres.

Revetment and Retaining Wall—Toledo, O.—See "Streets and Roads."

Cast Iron Pipe—Detroit, Mich.—Until Aug. 18, by J. A. Martin, comr. purchases & Supplies, Municipal Courts Bldg., furnishing 1500 tons c. i. water pipe with inside diameter of 6 in., 1500 tons 8 in., also 408 lengths of 12 ft. each, 6 in. diameter, with bell and spigot ends. Class "B".

Sea Wall—Rockwood, Mich.—W. H. Adams, engr., 1211 Vinton Bldg., Detroit, receiving bids furnishing labor and material for 750 ft. rein.-con. retaining or sea wall on shore of Lake Erie, for Port Mouille Shooting Club, Rockaway. About $20,000. Noted July 3.

Dam—Decatur, Ill.—Until Sept. 12, by city, building earth and concrete dam, 1900 ft. long on center line at top with height of about 28.5 ft. near center, concrete screen chamber, gates, conduits, concrete overflow spillway, etc. Pearse & Greeley, 39 West Adams St., Chicago, engrs.; advertised in this issue.

Water Tube Boiler, Etc.—Webster City, Ia.—Until Aug. 18, by City Manager, furnishing 1 watertube boiler, 1 steel stack, breeching, etc., also connections to heater system.

Road Machinery—St. Paul, Minn.—City is receiving bids for trench excavating machine and trench back filling machine. H. W. Austin, purch. agt.

Galvanized Iron Mains, Cast Iron Pipe, etc.—Greybull, Wyo.—Until Aug. 25, by Town Council, furnishing 2300 ft. 2 in. galvanized iron mains, 6040 ft. 4 in. c.i. pipe and 1460 ft. 6 in. c.i. pipe, also valves, hydrants, etc. G. W. Zorn, Greybull, engr.

Transit Sheds—Halifax, N. S.—Until Aug. 23, by C. B. Brown, ch. engr. Canadian Natl. Rys., Moncton, N. B., building two 2 story, 98 x 1258 ft., rein.-con. and brick, rein.-con. flooring, at South Terminals here. About $300,000. Foundation for same completed.

Retaining Wall—St. John, N. B.—Until Aug. 20, by G. G. Hare, engr., St. John, building concrete retaining wall to protect St. James St., for city. About $16,320.

Culverts, Piers—Grenville, Que.—Until Aug. 18, by A. F. Stewart, ch. engr., Canadian North R.R., building concrete culverts, abutments and piers between Mileage 59, L'Original and Ottawa, on Grenville subdivision.

Paving Bricks—Montreal, Que.—Until Aug. 18, by Administrative Comn., City Hall furnishing 80,000 Hillside grooved wire cut lug paving bricks. R. Bauset, city clk.

Wharf—Sillery, Que.—Until Aug. 28, by Dept. Pub. Wks., Ottawa, Ont., repairing Pointe Pizesau Wharf here, timber filled with stone. About $16,000. E. Lafleur, Ottawa, engr. Noted Apr. 10 under "Canada."

Pier—Ottawa, Ont.—Until Aug. 19, by J. W. Pugsley, secy. Dept. Railways and Canals, Ottawa, rebuilding north pier at upper entrance to Farran's Point Canal.

Wharf—Ottawa, Ont.—Until Aug. 19, by R. C. Desrochers, secy. dept. pub. wks., building crib wharf in front of Government Fish Hatchery, Dauphin River, Man.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Boilers, etc.—Central Islip, N. Y.—State Hospital Comn., Capitol, Albany, let contract for one 600 h.p. boiler, 4 stokers, etc., for Central Islip State Hospital, here, to Chute, Thornton & Bayley Corp., 2 East 13th St., New York City. About $81,600. Noted July 24.

★Pipe—Fulton, N. Y.—Bd. Pub. Wks. let contract furnishing Class D, 1 and 16 in. c. i. pipe for new watermain from pumping station to Bway. bridge, to Camden Iron Wks., Camden. About $37,000. City will lay same. Total cost, $75,000.

★Sand—New York, N. Y.—F. L. Dowling, pres. Manhattan Boro., let contract furnishing and delivering 11,000 cu.yd. asphalt wearing surface sand, Grade "B," to C. W. Crane, $13,200. Noted July 31.

★Paving Blocks—Connellsville, Pa.—City Council let contract furnishing 80,000 paving blocks for Murphy Ave., to Fayette Fire Brick Co., Uniontown, cost $32.35 per 1000.

★Bulkhead—Phila., Pa.—Dept. Wharves, Docks and Ferries, Bourse Bldg., let contract building with appurtenant work, Schuylkill River bulkhead, to McLean Constr. Co., Fidelity Bldg., Baltimore, Md., at $343,365. Noted July 24.

★Gas Pipe—Hamilton, O.—City let contract furnishing 55,000 ft. 1¼ to 8 in. steel gas pipe, to M. D. Larkin Supply Co., East 3rd St., Dayton, $21,800.

★Ice Breaker—Toledo, O.—City let contract building 340 ft. timber ice breaker, 46 ft. wide, on Fassett St., to M. Rabbitt & Sons, 115 Nasby Bldg., $27,850. Noted June 10.

DAM—SAN FRANCISCO, CAL

Bids were received by Board Public Works, July 30, for constructing Hetch Hetchy dam, from (A) Utah Constr. Co., Eccles Bldg., Ogden, Utah, (awarded contract for proposition A); (B) same company, proposition C; (C) R. C. Storrie & Co. The unit bids were as follows:

	A	B	C
Dam with overflow spillway:			
65,000 cu.yd. excavation of earth and loose rock in open cut, below elevation 3500	$8.00	$8.00	$10.00
12,000 cu.yd. excavation of solid rock in dam foundation, below elevation 3500	11.20	11.20	10.00
28,500 cu.yd. excavation of earth and loose rock in open cut, above elevation 3500	1.50	1.50	3.00
22,000 cu.yd. excavation of solid rock in dam foundation, above elevation 3500	3.00	3.00	6.00
10,000 cu.yd. excavation in tunnel and in shaft	10.10	10.10	12.00
47,000 cu.yd. cyclopean masonry below elevation 3500	11.80	11.55	11.00
17,500 cu.yd. mass concrete below elevation 3500	15.00	14.75	13.00
251,800 cu.yd. cyclopean masonry above elevation 3500	11.00	10.75	10.25
44,200 cu.yd. mass. concrete above elevation 3500	14.30	14.05	13.00
2,500 cu.yd. mass concrete in tunnel and in shaft	17.25	17.00	15.00
200 cu.yd. reinforced concrete, Class "A"	21.60	21.35	20.00
300 cu.yd. reinforced concrete, Class "B"	20.15	19.90	18.00
550 cu.yd. precast dense concrete blocks	18.70	18.45	20.00
1,600 cu.yd. precast porous concrete blocks	17.30	17.05	20.00
12,000 sq.ft. mortar 1-in. thick, placed by means of a cement gun	.13	.13	.50
82,000 sq.ft. mortar ½ in. thick, placed by means of a cement gun	.11	.11	.30
200 cu.yd. grout placed under pressure	44.60	44.35	30.00
10,000 bbl. extra cement	5.00	5.00	6.00
Screen rack No. 1 (complete structure)	10,800.00	10,800.00	30,000.00
Screen rack No. 2 (complete structure)	6,500.00	6,500.00	25,000.00
Screen rack No. 3 (complete structure)	12,200.00	12,200.00	45,000.00
1,000 lin.ft. grout holes in rock	1.80	1.80	5.00
1,000 lin.ft. grout holes in masonry	.70	.70	1.00
880 lin.ft. drainage holes through masonry	.85	.85	1.00
48,700 lb. steel reinforcing bars	.07	.07	.10
23,600 lb. galvanized steel or iron work	.13	.13	.20
2,800 lb. bronze	1.35	1.15	2.00
13,000 lb. galvanized pipe and fittings	.13	.13	.20
200 lb. galvanized chains	.14	.14	.25
800 lb. cast iron gratings and frames	.14	.14	.10
10,000 lb. copper water stops	.60	.60	1.00
2,090,000 lb. placing metal work furnished by city	.03	.03	.03
530 sq.ft. doors faced with galvanized iron	.45	.45	2.00
17,000 sq.ft. painting concrete surfaces in waterways	.09	.09	.20
10 radial gates	1,200.00	1,200.00	3,500.00
Extended totals for dam with overflow spillway	$5,370,809	$5,279,346	$5,43 .010
Dam with siphon spillway:			
Totals for items 1-7, 9, 10, 13-24, 27-30, 32-34, same as above	$2,566,166.50	$2,537,779	$2,786,070
253,200 cu.yd. cyclopean masonry above elevation 3500	11.00	10.75	10.25
50 cu.yd. reinforced concrete, Class "A"	21.60	21.35	20.00
3,100 cu.yd. reinforced concrete, Class "B"	20.15	19.90	18.00
132,000 lb. steel reinforcing bars	.07	.07	.10
41,700 lb. galvanized steel ir iron work	.13	.13	.20
13,700 lb. copper water stops	.60	.60	1.00
Acquiring and conveying to the city the legal right to construct and operate the siphon spillway (lump sum)	10,000.00	10,000.00	2,500.00
Extended totals for dam with siphon spillway	$5,447,793	$5,355,318	$5,475,910

★Storage Tanks—Keokuk, Ia.—J. C. Hubinger Bros. Co. let contract for two 10,000 bu. rein.-con. grain storage tanks, to Burrell Eng. & Constr. Co., 327 South La Salle St., Chicago. About $15,000.

★Tank — Minneapolis, Minn. — Banner Grain Co., 722 Flour Exch., let contract, building 250,000 bu. grain storage tank, rein.-con., to Burrell Eng. & Constr. Co., 327 South La Salle, St., Chicago. About $75,000.

★Timber — Minneapolis, Minn. — City let contract furnishing 225,000 ft. fir timber from 2 x 10 ft. to 10 x 12 ft. in length, to Pacific Coast Lumber Co., Lumber Exch., $40 per M. Noted July 17.

Cast Iron Pipe—Caldwell, Kan.—See "Sewers."

★Foundations, etc.—Denver, Colo.—State Bldg. Comn. let contract to Seerie & Varnum, 605 Interstate Trust Bldg., Denver, building foundation and tunnel in connection with proposed 5 story, 112 x 114 ft. office building, on Colfax Ave. and Sherman St., cost $96,127. Total cost, $500,000.

Retaining Wall—Phoenix, Ariz.—See "Streets and Roads" under Arizona.

★Interior Finishing—Olympia, Wash.—State Capitol Comn., Olympia, let contract finishing interior of Temple of Justice, to Pratt & Watson, Tacoma, $283,267.

★Power Plant Equipment—Los Angeles, Cal.—Bd. Pub. Serv. let contract furnishing generators and electrical equipment for power plant No. 2, in San Francisquito Canyon, to Genl. Electric Co., Rialto Bldg., San Francisco, $457,505; hydroelectrical appliances, to Wellman-Seever-Morgan Co., Rialto Bldg., San Francisco, $203,561. Noted June 12.

★Freight Shed—Moncton, N. B.—Canadian Natl. Ry., (Intercolonial Div.), let contract building combined freight shed and office, to Engineers & Contractors, Ltd., St. John. About $74,500.

★Breakwater—Port Arthur, Ont.—Dept. Pub. Wks., Ottawa, Ont., let contract building rein.-con. extension to breakwater, here, to Chambers, McCaffrey & McQuigge, Ltd., Excelsior Life Bldg., Toronto. About $684,000.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bid: Aug. 28.

Sewer Construction

Lima, Ohio.

Sealed proposals for the construction of South Side Main Relief Sewers, Contract No. 2, will be received at the office of the Director of Public Service, City Hall, Lima, Ohio, until 12:00 o'clock noon, Central Standard Time (1:30 o'clock so-called "daylight saving" time), of the 28th day of August, 1919, and at that time and place will be publicly opened and read. The City of Lima reserves 30 days thereafter in which to act on the bids.

Alternate bids will be received for monolithic concrete, concrete segment block, vitrified segment block, reinforced concrete pipe or vitrified pipe as set forth on the blank form of proposal furnished by the City of Lima, Ohio. The total length of the sewer under this contract is about 12,200 feet, consisting of the following sizes: 72 inch circular; 60 inch by 98 inch semi-circular; 60 inch circular; 54 inch circular; 42 inch circular; 36 inch circular and 24 inch circular.

In addition there is a weir chamber near Kibby St. and Central Ave., together with special junctions at various points along the line of the proposed sewer. Contractors attention is called to the fact that the borings, taken along the line of the work, show no rock except at a point near the river or outlet.

The work to be done under this contract (No. 2) must be completed in accordance with the plans and specifications not later than twenty-two (22) months after the date of the award of the contract.

Copies of the plans, form of propsal, contract, bond and specifications may be inspected at any of the following offices:

Director of Public Service, City Hall, Lima, Ohio.

Fuller & McClintock, 170 Broadway, New York City.

Wm. G. Clark, 1047 Spitzer Building, Toledo, Ohio.

City Engineer, City Hall, Lima, Ohio.

Copies of the plans and specifiactions with form of proposal, contract and bond may be obtained at the office of the City Engineer, City Hall, Lima, Ohio. A charge of ($6) dollars will be made for each set of plans and specifications. No charge will be made for the proposal blank.

Each proposal must be accompanied by a certified check upon a National Bank or Trust Company doing business in the State of Ohio, U. S. Government bonds or cash in the sum of eight thousand ($8000) dollars, made payable to the City of Lima, Ohio.

The bidder to whom the contract is awarded will be required to furnish a surety company bond in the sum of 50% of his bid.

The City of Lima, Ohio, reserves the right to reject any or all bids, to waive any informalities in the bids received and to accept and bid which they deem most favorable to the interest of the City of Lima, Ohio.

A. L. METHEANY,
Director of Public Service.
VAUGHN C. MILLER,
City Engineer

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

Official Proposals reaching our office in first mail Wednesday morning (9 o'clock) can usually be published in the issue out the next day. Special price for Official Proposals, $3.60 an inch.

OFFICIAL PROPOSALS

Bids: Aug. 18.

Sanitary Sewerage System and Disposal Plant

Borough of Paulsboro, N. J.

Sealed proposals will be received by the Borough Council of Paulsboro, N. J., at the Council Chamber in the Black Building, on the 18th day of August, 1919, until 8:00 o'clock P.M., for the construction of a complete sanitary sewerage system, consisting of approximately 10.8 miles of 5 in., 6 in., 8 in., 10 in., 12 in., 15 in. and 18 in. Terra Cotta pipe sewers and house connections, 107 Manholes, 11 Flushtanks, pumping station and disposal plant.

Each proposal must be accompanied by a certified check, made payable to the Borough Clerk, for a sum equal to 5% of the amount of bid.

Plans and specifications are on file and may be seen at the Council Chamber, Paulsboro, N. J., or at the office of the engineers, Remington & Vosbury, 601 Market Street, Camden, N. J. Complete sets of plans and specifications may be obtained from the engineers upon a deposit of $10 of which sum $5 will be refunded upon return by September 1, of the same in good condition.

The Borough reserves the right to reject any or all bids.

DANIEL D. POTE,
Borough Clerk.

Bids: Aug. 18.

Gravel Loader Manufacturers

Hastings, Minn.

Sealed proposals will be received at the Office of the County Auditor, Dakota County, Hastings, Minn., until 2 P. M., Aug. 18, 1919, for the purchase of a mechanical loader, suitable to load gravel from pits into Auto Trucks.

Bids must be accompanied by a certified check payable to the County Treasurer for at least 5 per cent. of proposal, each proposal must be accompanied by a complete set of specifications of loader. The County Board of Dakota County reserve the right to reject any or all bids.

R. W. DOWNS, County Auditor.

OFFICIAL PROPOSALS

Bids: Aug. 25.

Paving

Allegheny, Pa.

Sealed Proposals addressed to the Supervisors of Allegheny Township, Cambria County, Penna., in care of the County Controller, Ebensburg, Penna., will be received until 2 o'clock P. M. of the 25th day of August, 1919, and opened and read publicly in the office of the County Commissioners at 2:30 P. M. of the same day, for the reconstruction of 17,490 feet of the Carrolltown Road from a point in the line of Charles M. Schwab, Esq. to the line between Allegheny and East Carroll Townships.

Alternate bids are requested as follows:—(1) On a four (4) inch vitrified clay paving block on a concrete base; (2) On a three (3) inch vitrified clay paving block on a concrete base and (3) On a one-course reinforced concrete pavement.

All labor and all material will be furnished by the contractor.

Proposal sheets may be obtained from the Engineer at his office, 80-81 Altoona Trust Building, Altoona, Penna., and the plans and specifications are there open for examination.

A set of the plans and a copy of the specifications may be obtained by depositing ten dollars ($10) with the Engineer. This deposit will be refunded upon the return of the papers in good condition.

Each proposal must be accompanied by a certified check of two thousand dollars ($2,000) as a guaranty of the good faith of the bidder.

Bidders are requested to make appointments with the Engineer to go over the proposed improvement and to examine the plans.

The Board of Supervisors of the Township of Allegheny reserves absolutely the right to reject any or all bids.

By order of Joseph V. Little, Edward Lens and Charles A. Long, Supervisors of the Township of Allegheny, Cambria County, Pennsylvania.

D. W. DILLMAN,
Township Engineer.

Bids Aug. 18.

Concrete Pavement

DEPARTMENT OF PUBLIC WORKS
Richmond, Va.

SEALED PROPOSALS will be received at this office until 12 M. MONDAY, AUGUST 18, 1919, for the grading and paving with concrete, or asphaltic concrete, or bitulithic pavement, of certain streets, amounting to approximately 107,000 square yards of paving, and other work pertaining thereto.

Forms of proposals, specifications and information furnishd upon application.

A certified check for $1,000, payable to the Director of Public Works to accompany each bid as a guaranty of execution of each contract.

The right to reject any and all bids, or to award the contract as a whole or in part is reserved by the Director of Public Works.

CHAS. E. BOLLING,
Director of Public Works.